

GenCore version 5.1.6  
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score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

OM nucleic - nucleic search, using sw model  
Run on: April 10, 2004, 04:31:04 ; Search time 11423 seconds  
Perfect score: 1153.842 Million cell updates/sec  
Title: US-09-430-412a-1  
Sequence: 1 atccatcaataatccgtta.....gtgaggatgggttctcg 3045  
Scoring table: IDENTITY\_NUC  
Gapop 10:, Gapext 1.0  
Searched: 3470272 seqs, 2167151695 residues  
Total number of hits satisfying chosen parameters: 6940544  
Minimum DB seq length: 0  
Maximum DB seq length: 200000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenBank:  
1: gb ba:\*\*  
2: gb htbg:\*\*  
3: gb\_in:\*\*  
4: gb\_iri:\*\*  
5: gb ov:\*\*  
6: gb\_Pat:\*\*  
7: gb\_ph:\*\*  
8: gb\_Pl:\*\*  
9: gb\_Pr:\*\*  
10: gb\_ror:\*\*  
11: gb\_sts:\*\*  
12: gb\_sy:\*\*  
13: gb\_un:\*\*  
14: gb\_vl:\*\*  
15: em\_bai:\*\*  
16: em\_fun:\*\*  
17: em\_hum:\*\*  
18: em\_in:\*\*  
19: em\_mut:\*\*  
20: em\_om:\*\*  
21: em\_oxr:\*\*  
22: em\_ovr:\*\*  
23: em\_Pat:\*\*  
24: em\_Ph:\*\*  
25: em\_Pt:\*\*  
26: em\_Ro:\*\*  
27: em\_sts:\*\*  
28: em\_un:\*\*  
29: em\_vl:\*\*  
30: em\_htbg\_hum:\*\*  
31: em\_htg\_inv:\*\*  
32: em\_htg\_other:\*\*  
33: em\_htg\_mus:\*\*  
34: em\_htg\_pln:\*\*  
35: em\_htg\_ror:\*\*  
36: em\_htg\_mam:\*\*  
37: em\_htg\_vrt:\*\*  
38: em\_sy:\*\*  
39: em\_htgo\_hum:\*\*  
40: em\_htgo\_mus:\*\*  
41: em\_htgo\_other:\*\*

Result No.	Score	Query	Match	Length	DB	ID	Description
C 1	2731	89.7	139939	9	AC008965		AC008965 Homo sapi
C 2	2731	89.7	180083	9	AC122707		AC122707 Homo sapi
C 3	199.2	64.3	3000	6	AX194837		AX194837 Sequence
C 4	978.4	32.2	3001	6	AX194838		AX194838 Sequence
C 5	747.8	24.6	1204	9	HSHTLIA		211658 H.sapiens 5
C 6	522.6	17.2	2512	6	AX194847		AX194847 sequence
C 7	43.8	14.4	699	9	H5HTLAR5		X53865 H.sapiens D
C 8	163.6	5.4	3635	10	AF08775		AF087675 Rattus no
C 9	162.6	5.3	203941	2	AC114573		AC114573 Mus muscu
C 10	159.6	5.2	259367	2	AC130951		AC130951 Rattus no
C 11	159.6	5.2	260103	2	AC0094978		AC0094978 Rattus no
C 12	14.4	4.7	5570	10	AY029704		AY029704 Mus muscu
C 13	139.6	4.6	2725	10	AF212200		AF212200 Rattus no
C 14	134.2	4.4	1256	10	MNU33820		U33220 Mus musculu
C 15	155.6	4.1	7218	6	AM6494		166494 Sequence 14
C 16	10.0	3.3	158699	9	AC006183		AP00183 Homo sapi
C 17	95	3.1	138777	2	AC120883		AC120883 Homo sapi
C 18	94	3.1	12240	9	AC084128		AC084128 Homo sapi
C 19	94	3.1	170928	9	AC033448		AC033448 Homo sapi
C 20	92	3.0	160732	9	AC018647		AC018647 Homo sapi
C 21	91.8	3.0	169122	9	AC016803		AC016803 Homo sapi
C 22	91.6	3.0	14970	9	PRM1ALP3		AL031746 Plasmidu
C 23	91.2	3.0	14075	9	AC110014		AC110014 Homo sapi
C 24	91.2	3.0	25029	3	AC014816		AE01816 Plasmidu
C 25	90.2	3.0	76568	9	MREV		AF53053 Monosaga
C 26	90	3.0	133409	9	AC009181		AC06181 Homo sapi
C 27	89.2	2.9	8056	6	AM599046		AX599046 Sequence
C 28	89	2.9	178207	9	AC140172		AC140172 Homo sapi
C 29	89	2.9	255658	3	AB014832		AB014832 Plasmidu
C 30	88.8	2.9	13877	2	AC120883		AC120883 Homo sapi
C 31	88.6	2.9	108902	2	AC011430		AC011430 Homo sapi
C 32	88.6	2.9	105908	3	PRM1ALP3B		AL034560 Plasmidu
C 33	88.4	2.9	10343	3	AMFGENOM		L06778 Apis mellif
C 34	88.2	2.9	17559	9	AC112498		AC112498 Homo sapi
C 35	87.8	2.9	104992	2	AC005504		AC005504 Plasmidu
C 36	87.8	2.9	16546	2	AC004157		AC004157 Plasmidu
C 37	87.8	2.9	204662	9	CMS1RHO		All62191 Human Chr
C 38	87.8	2.9	250421	3	AB014849		AB014849 Plasmidu
C 39	87.6	2.9	2687	3	PRKPA		M19811 P.falcipar
C 40	87.4	2.9	15618	9	AC09750		AC09750 Homo sapi
C 41	87.2	2.9	14331	9	AC091214		AC091214 Homo sapi
C 42	87.2	2.9	271546	3	AB014843		AE04843 Plasmidu
C 43	86.8	2.9	8056	6	AM59900		AX59900 Sequence
C 44	86.8	2.9	11000	2	PRM1ALP1_05		Continuation (7 of
C 45	86.8	2.9	135121	9	AC069525		AC069525 Homo sapi

## ALIGNMENTS

RESULT 1  
AC008965 LOCUS 139939 bp DNA linear PRI 31-JUN-2001  
DEFINITION Homo sapiens chromosome 5 clone CTD-2364L17, complete sequence.  
ACCESSION AC008965  
VERSION AC008965.6 GI:15042790  
KEYWORDS HTG  
SOURCE Homo sapiens (human)  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 139939)  
AUTHORS DOB Joint Genome Institute and Stanford Human Genome Center.  
TITLE Direct Submission  
JOURNAL Unpublished







JOURNAL		Patent: WO 0151659-A 307 19-JUL-2001; (FR)
GENSET	FEATURES	Location/Qualifiers
QY	2264 ATTCCTCCCTGAGGGAGTAAGCTGTGACTGTAGATACCGGAGGTGGTTGTTG 2323	1. .-000
Db	102392 ATTCCTCTGAGGGAGTAAGCTGTGACTGTAGATACCGGAGGTGGTTGTTG 102451	/organism="Homo sapiens"
QY	2324 TGTGTGCGTGTGTCGTTGAGACGGAGCTGCTGCTGCCCCAGGTGG 2383	/mol_type="unassigned DNA"
Db	102452 TGTGTGCGTGTGTCGTTGAGACGGAGCTGCTGCTGCCCCAGGTGG 102511	/ab_xref="taxon:9606"
QY	2384 AGTGCATGCCGAGAACGGGGTAGCTTTAACGAGAACACTGGCTCTGGCTT 2443	/note="downstream amplification primer"
Db	102512 AGTGCATGCCGAGAACGGGGTAGCTTTAACGAGAACACTGGCTCTGGCTT 102571	1481. .1500
QY	2504 CCTATGCTCTTCTCATCTCTATGGAGACTGACCAGAGCTGACCGATTAAAGGAAACACTGCTCTT 2563	/note="8-42-211 misl, potential"
Db	102632 CCTATGCTCTTCTCATCTCTATGGAGACTGACCAGAGCTGACCGATTAAAGGAAACACTGCTCTT 102691	1482. .1500
QY	2564 TTGGCAGATAATGGGAGGAGTAGTTGGAAATTCCCTCCCCAAGTTTCCAAACC 2623.	/note="8-42-211.mis2, complement"
Db	102692 TTGGCAGATAATGGGAGGAGTAGTTGGAAATTCCCTCCCCAAGTTTCCAAACC 102751	1489. .1513
QY	2624 CAGTTTGCTGGGTGGCCGAGTTATTGTTACACCTGGCTGACCGCGA-GGA 2682	/note="8-42-211 potential probe"
Db	102752 CAGTTTGCTGGGTGGCCGAGTTATTGTTACACCTGGCTGACCGCGA-GGA 102811	1501
QY	2683 TCTGTGTTGTTAGTGTAGTGTGTTCTGAGTCTGTTGAGCTGAAAGGAAAG 2742	/note="8-42-211 : polymorphic base C or G"
Db	102812 TCTGTGTTGTTAGTGTAGTGTGTTCTGAGTCTGTTGAGCTGAAAG 102871	1694. .1711
QY	2743 CCGTGTAGCTAGAGGGAGGGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2802	/note="upstream amplification primer, complement"
Db	102872 CCGTGTAGCTAGAGGGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 102931	ORIGIN
QY	2803 GGGAGGATTTAGGGGGAGGGTTAGCTGGGGAGGAGGAGGAGGAGGAGGAG 2862	Query Match
Db	102932 GGGAGGATTTAGGGGGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAC 102991	Best Local Similarity 99.6%; Score 1959.2; DB 6; Length 3000;
QY	2863 TCACAGGGATAATAAGGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2922	Matches 2018; Conservative 1; Mismatches 1; Indels 6; Gaps 6;
Db	102992 TCACAGGGATAATAAGGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAC 103051	1024 CTORACATATAAAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1083
QY	2923 TGGGGAGAGGGAGCAAGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2982	2900 CIGACTATATAAAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2841
Db	103052 TGGGGAGAGGGAGCAAGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 103111	1084 ATGCACTGGCCAACTGGATTCTTGTGTTGAGCTGCTCTTGTGTTGGCTT 1143
QY	3043 TCG 3045	2840 ATGCACTGGCCAACTGGATTCTTGTGTTGAGCTGCTCTTGTGTTGGCTT 2781
Db	103112 GAGGGAGGAGGAAATAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 103171	1144 GAGAAATCAGGCTATGAAATCAGGCTGAGTTGACGAGATAATAATTATG 1203
QY	3043 TCG 3045	2780 GAGAAATCAGGCTATGAAATCAGGCTGAGTTGACGAGATAATAATTATG 2721
Db	103172 TCG 103174	1204 ATCTGTAGTGTGATCTGTCATGTTACAGTGTCACTGCTTGTGATTCATCCT 1263
QY	RESULT 3	2720 AACCTGTAGTGTGATCTGTCATGTTACAGTGTCACTGCTTGTGATTCATCCT 2661
Db	AX194837/ Locus Sequence 307 from Patent WO151659. Version 1.1 GI:15385484	1264 TACCTCTGGCTATGCAATCAGGATGATAAGGAAAGTGTGTTGAGCTGCT 1132
QY	DEFINITION Sequence 307 from Patent WO151659.	2660 TACCTCTGGCTATGCAATCAGGATGATAAGGAAAGTGTGTTGAGCTGCT 2541
VERSION	ACCESSION AX194837	1324 TTGCTTAAAGTCCATCTTACCAATGCTAAATGCTAAATGCTAAATGCTAAATGCT 1381
KEYWORD	ORGANISM Homo sapiens (human)	1382 AAGGAACAGTTAGACAAACCTGTAAAGTACCTTA-TTCAGTGTAACTT 1440
REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primate; Catarrhini; Hominidae; Homo. Chu,T., Blumenfeld,M. and Cohen,D.	2540 AAAGGAACAGCTTACACCTGTAAAGTACCTTA-TTCAGTGTAACTT 2481
AUTHORS	Allelic markers derived from genomic regions carrying genes involved in central nervous system disorders	1441 CCAAATGTTAAATCATTGGAAATGAACTATATGTTCTCCACAAAGGTAATT 1500
TITLE		2480 CCAAATGTTAAATCATTGGAAATGAACTATATGTTCTCCACAAAGGTAATT 2421
QY	1501 TATGTCAGTCTCAAAGTCAGGTATGACAGCACACACACAGGTGAAAGTGT 1560	1501 TATGTCAGTCTCAAAGTCAGGTATGACAGCACACACACAGGTGAAAGTGT 1560
Db	1561 CCTAGCTTAAATGGCTTCCCGTGTGAGACTGTGTGAGAGATCTTCAGGT 1620	2420 TATGTCAGTCTCAAAGTCAGGTATGACAGCACACACACAGGTGAAAGTGT 2361
QY	2360 CCTAGCTTAAATGGCTTCCCGTGTGAGACTGTGTGAGAGATCTTCAGGT 2301	1621 TTGAGGAGGAGGAAATGACATATAAGGCTGATATAAGGTCAGAGCAAGGGC 1680
Db	2300 TTGAGGAGGAGGAAATGACATATAAGGCTGATATAAGGTCAGAGCAAGGGC 2241	1681 ACTAAATAATTTAAAGAAATGGAGGAGAACACTCAACTACTGCTT 1740
QY	2240 ACTAAATAATTTAAAGAAATGGAGGAGAACACTCAACTACTGCTT 2181	

Qy	1741 TATACTGCTCCCTACTAAAGTGTATTCTCAACTGCTCATTTCT 1800	Db	1102 GAGGTTAGAGTGGAGGAGGACCTTGCGAGGACTCAGAGGAATTA 1043
Db	2180 TATACTGCTCCCTCTAAAGTGTATTCTCAACTGCTCATTTCT 2121	Qy	2380 AAGGGAAGTGGAGGAGGAGGAGCTGAGAGGAGGAGGAGGAGGAGC 2939
Qy	1801 GGATAGGTTCCAGATGGCACTTAAACATTGCCAGAGGTGGGAATTAAC 1860	Db	1042 AACGGAGTAGAGGAGGAGGAGGAGCTGAGAGGAGGAGGAGGAGGAGC 983
Db	2120 -GCATAGGGTTCCAGATGGCACTTAAACATTGCCAGAGGTGGGAACAT 2063	Qy	2940 AAAGAGCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGAAT 2999
Qy	1861 CTATGCTTAGACTGTCCAGGCTGACAGTGGAGATAGAGGCTAGC 1920	Db	982 AAAGAGCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGAAT 923
Db	2062 CTATGCTTAGACTGTCCAGGCTGACAGTGGAGATAGAGGCTAGC 2003	Qy	3000 AGGAGGAGGCTCAAGATGACCTGAGGTGGAGATGGGTCTCG 3045
Qy	1921 CGCTAGCGAACCGATTCAGGATCTGAACCGAGGTGGAGCTGAGGCTAGC 1980	Db	922 AGGAGGAGGCTCACAGTGACCGTGGAGGATGGGTCTCG 877
Db	2002 CGCTAGCGAACCGATCTGAACCGAGGTGGAGCTGAGGCTAGC 1943		
Qy	1981 GTGCAAAGGCACTGGAATGCCAGGCTCACTAGAACACATGCAAATTCA 2040		
Db	1942 GTGCAAAGGCACTGGAATGCCAGGCTCACTAGAACACATGCAAATTCA 1883		
Qy	2041 TCCTGATTTACTAGCACAAAGCTGGAGCTGCTGACTGAATTAACAGG 2100		
Db	1882 TCCTGATTTACTAGCACAAAGCTGGAGCTGCTGACTGAATTAACAGG 1823		
Qy	2101 TAGTAGTGTGGAAAGTGTGTGTAGATAATATCCTAGTTGCTCT 2160		
Db	1822 TAGTAGTGTGGAAAGTGTGTGTAGATAATATCCTAGTTGCTCT 1763		
Qy	2161 CATTGAGATGCACTGTTACCTCTCTGTCCTTGACAGCTTATTAATTCT 2220		
Db	1762 CATTGAGATGCACTGTTACCTCTCTGTCCTTGACAGCTTATTAATTCT 1703		
Qy	2221 TCTCTCCGGTTCCCAACGTTAAAGTCACGGGATATCTCTGAGGAGT 2280		
Db	1702 TCTCICCGGTTCCCAACGTTAAAGTCACGGGATATCTCTGAGGAGT 1643		
Qy	2281 AGGGTGACTCTTATGATGACGGAGGTACCGTTGTTGTTGCGCTGTC 2140		
Db	1642 AGGGTGACTCTTATGATGACGGAGGTACCGTTGTTGCGCTGTC 1583		
Qy	2341 GTTGTGTTGAGACGGCTCGCTGCTGCGCCAGGTGACTGCATGGCGACA 2400		
Db	1582 GTTGTGTTGAGACGGCTCGCTGCTGCGCCAGGTGACTGCATGGCGACA 1523		
Qy	2401 AGGGAGTAGCTTTAAAGGAGACACCTCGGCTCTTCACTAATTAGATA 2460		
Db	1522 AGGGAGTAGCTTTAAAGGAGACACCTCGGCTCTTCACTAATTAGATA 1663		
Qy	2461 TGGGAACTGACCTGGAGCTTCACTCCATGCTCCCT 2220		
Db	1462 TGGGAACTGACCTGGAGCTTCACTCCATGCTCCCT 1403		
Qy	2521 CTCTCTTATGCACTGCTGAGCAGGATTAAGTGTGGACATATAGAG 2380		
Db	1402 CATCTCTTATGCACTGCTGAGCAGGATTAAGTGTGGACATATAGAG 1343		
Qy	2581 GGAGGGTAGTGTGAATCCCTCCAACTTTCACCCCAAGTTGCTGCTGCTG 2640		
Db	1342 GCAAGGGTAGTGTGAATCCCTCCCAAGTTTCAACCCCAAGTTGCTGCTG 1283		
Qy	2641 AGCGGAGTTTGTACACCTGCAACCGCA GGATGGTGTGTGTAGGGAGT 2659		
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Qy	2700 AGTCTGAGCTCTGACACAAAGACTGCAACCGCA GGATGGTGTGTGTAGGGAGT 2759		
Db	1222 AGTCTGAGCTCTGACACAAAGACTGCAACCGCA GGATGGTGTGTGTAGGGAGT 1113		
Qy	2760 AGCGGGGGACCCAGGAGGACACTCTGGGTGGGAAGTGTAGAGGG 2819		
Db	1162 AGCGGGGGACCCAGGAGGACACTCTGGGTGGGAAGTGTAGAGGG 1103		
Qy	2820 GAGGGTAGAGTGGAGGAGGAGGAGGCTGCTGAGGAGCTGCTGAGGATA 2879		

RESULT 4  
AXY94838 AX194838 AX194838 Sequence 308 from Patent WO015159.  
DEFINITION Sequence 308 from Patent WO015159.  
ACCESSION AX194838  
VERSION AX194838.1 GI:15385485  
KEYWORDS  
SOURCE  
ORGANISM Homo sapiens (human)  
Bukaryota; Metazoa; Craniata; Vertebrata; Buteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
AUTHORS Chiu,T., Blumenfeld,M. and Cohen,D.  
TITLE Biallelic markers derived from genomic regions carrying genes involved in central nervous system disorders  
JOURNAL Patent: WO 0151659-A 308 19-JUL-2001;  
GENSET (PR) location.qualifiers  
FEATURES source  
1. -3001  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
1114..1133  
/note="upstream amplification primer"  
1481..1500  
/note="8-45-389.mis1, potential"  
1489..1513  
/note="8-45-389 potential probe"  
1501  
/note="8-45-389 : polymorphic base A or G"  
1502..1520  
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1516..1533  
/note="downstream amplification primer, complement"  
primer\_bind  
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ORIGIN  
Query Match 32.2%; Score 979.4; DB 6; Length 3001;  
Best Local Similarity 98.7%; Pred. No. 3..2e-161;  
Matches 1005; Conservative 0; Mismatches 11; Indels 2; Gaps 2;  
Matches 1005; Conservative 0; Mismatches 11; Indels 2; Gaps 2;

Qy 2029 AAATATTTCCATCCGATTAAGCTGCAACAGTATGGAAAGTGGCGTACTG 2088  
Db 9 AAATATTTCCATCCGATTAAGCTGCAACAGTATGGAAAGTGGCGTACTG 68  
Qy 2089 AAATACAGTGTGGAGTGTGGAGTGGATGGTGTGTGTAGATAATACAGT 2148  
Db 69 AAATACAGTGTGGAGTGTGGAGTGGATGGTGTGTGTAGATAATACAGT 128  
Qy 2149 AGTTGTCTGATTCAGTGTGGAGTGTGGAGTGGATGGTGTGTGTAGATAATACAGT 2208  
Db 129 AGTTGTCTGATTCAGTGTGGAGTGGATGGTGTGTGTAGATAATACAGT 188  
Qy 2209 TATAATTCTCCGGTCCACGTTAAAGTCACGGCAATTCT 2268  
Db 189 TATAATTCTCCGGTCCACGTTAAAGTCACGGCAATTCT 248  
Qy 2266 CCTGAGGGAGTAGGTGGAGCTGTTAGTGTAAACGGGTACGGTTGTGTGTG 2328







OY	1056	TATCCAAACAGACTGTCGTATGTAATGCATGCCAACGGCATCTTGTGTC	1115	Hagos, B., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., LaRocque, K., Lazarevs, R., Landers, T., Lebocky, J., Levine, R., Lindblad-Toh, K., Liu, G., MacLean, C., McDonald, J., Major, J., Margis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., Meldrim, J., Meineis, L., Mihova, T., Mlenga, V., Murphy, T., Nayler, J., Nguyen, C., Nicol, R., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C., Rettar, R., Reback, M., Riley, R., Rose, C., Roy, A., Santos, R., Schauer, S., Schnaback, R., Roman, J., Rosetti, M., Roy, A., Santos, R., Schauer, S., Seaman, S., Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N., Strauss, N., Subramanian, A., Tallam, J., Testafaye, S., Theodore, J., Travers, M., Travis, N., Trigilio, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.J., Young, G., Zaiouin, J., Zembek, L., Zimmer, A., and Zody, M.
Db	1110	ATCTTCAGTACACAGCCCTGGTTAT-ATTTTGCCACATGACTTCTTGTGTC	1168	
OY	1116	TTCGGTATTGTTCTTGTGTTGGCTTGAGAATCGAGCTATGAACATCAGAGCTCA	1175	
Db	1169	TTTGGTATTGTTCTTGTGTTGGCTTGAGAATCGAGCTATGAACATCAGAGCTCA	1227	
OY	1176	GATTGACACATATAAGATATGCAATCTGTGTTGAACTGAGCTATGAGCTCA	1235	
Db	1228	GATGTCACACAGCACTAGTAGAGAACTGGCTTGAGCTGAGCCCTCTGCTGCTAGA	1287	
OY	1236	GTCACGCTTGTGAGATGCTT---CCTTCACCTAGGCAATCAGCTTGTGCTGTC	1290	
Db	1288	ATTCGCTGTGAGAATGCAATGCACTCTGTTAGCTTGTGCTGAGCTAGATGTC	1347	
OY	1291	TAGTGAATGTCGTTG---GTTGTTACTGTGTTGAGTCAATCTTAC	1346	
Db	1349	TAGCAGATCTTGTGCTGCTGTTTATCTGTTATTAGTGTGAACTGAGTCATCTT	1405	
OY	1347	CAATGCTCAAATGTTGATTAATTTGTTCTGTTAAGGAAACGCTAGACAAACCC	1405	
Db	1406	-TATCTCTGTTGGATGCTTGTGTTGTTCAAAATACATCTGTTAAACAATTC	1464	
OY	1407	TGTAAGTATCTGTTGCTGTTGAGTACATTCGAATGTTAACTCATTTGAAATG	1466	
Db	1465	CTAAATGCTCTTATTCTGTTAGTTAATGCTTCTGTTAAGGAAACGCTAGACAAACCC	1495	
OY	1467	CATTAATCTGTTCTGTTCAACAAAGGTTAAATTGTCAGTCTTCAAGTTGAGCTT	1526	
Db	1513	AATAATGTCCTCTCCCAATAAAC----ATGAGCTCTATGACAACTGT	1565	
OY	1527	GACGCGACAAACACAGCTGAAAGCTGCTAGCTTCAAGGAGCTAGACATGCC	1586	
Db	1566	GACACGACGACRAATAGCGAAATGTTGTCGATGTCCTA	1612	
OY	1587	AGTTAGAACTTGTGATGACAGACTTCAGGTTGAGAGCTAACTTCAGGAACTA	1646	
Db	1613	--TAGACTTGTGATGATGTCATAACTTTCAGGAGCTAGACATGCC	1669	
OY	1647	GGCCGTATATAAGGTCAGGAAAGAGGAGCTAAATTAATTAAAGAAAATA	1706	
Db	1670	GCTTGTGACAGACAACTCACTACCTGTCCTTTA	1742	
OY	1707	GGAGGAGACAACTCACTACCTGTCCTTTA	1765	
Db	1730	ATTAAGTCACATTAACTGATCTTATTTTA	1765	
RESULT 9				
AC114573	AC114573	Mus musculus chromosome 13 clone RP23-146M15 map 13, *** SEQUENCING DEFINITION	203941 bp DNA linear HTG 17-DBC-2003	
ACCESSION	AC114573	IN PROGRESS * **, 5 unordered pieces.		
VERSION	AC114573.5	GI:39979456		
KEYWORDS	HTG; HTGS_PHASE1; HTGS_FULLTOP; HTGS_ACTIVEFIN.			
SOURCE	Mus musculus (house mouse)			
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murines; Mus.			
REFERENCE	1 (bases 1 to 203941)			
AUTHORS	Birren, B., Nusbaum, C. and Lander, E.			
TITLE	Mus musculus chromosome 13, clone RP23-146M15			
REFERENCE	2 (bases 1 to 203941)			
AUTHORS	Birren, B., Linton, L., Nusbaum, C., Lander, E., Ali, A., Ailen, N., Anderson, S., Barra, N., Basien, V., Bloom, T., Boguslavsky, L., Boukhgalter, B., Brown, J., Camarata, J., Campopiano, A., Chang, J., Chazaro, B., Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cook, A., Cooke, P., DeAngelis, K., Dewar, K., Diaz, J. S., Dodge, S., Faro, S., Ferreira, P., Fitzgerald, W., Fitzgerald, J., Galagan, J., Gardyne, S., Ginde, S., Gold, S., Govette, M., Graham, L., Grand-Pierre, N.,			
NOTE:	This is a 'working draft' sequence. It currently consists of 5 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.			
1	41236: contig of 41236 bp in length			
*	41237: gap of 100 bp			
*	41337: contig of 12454 bp in length			
*	53790: gap of 100 bp			
*	53791: 53800: gap of 100 bp			
*	53801: 58612: contig of 4442 bp in length			
*	58613: gap of 100 bp			
*	58732: gap of 100 bp			
*	58733: contig of 50928 bp in length			
*	109660: gap of 100 bp			
*	109661: 109760: contig of 94181 bp in length			
FEATURES	Location/Qualifiers			

## source

1. -203941  
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 /mol\_type="genomic DNA"  
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## ORIGIN

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 Best Local Similarity 49.9%; Pred. No. 5.1e-19; Mismatches 119; Indels 198; Gaps 31;  
 Matches 1390; Conservative 0; Mismatches 119; Indels 198; Gaps 31;

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 Db 33347 TCTACATTTAGAACAGCAATGGTGTGATAATCATGATCATT-TGAGATGATA 33405  
 QY 417 TGAATTACTTGATTGAAAACCTTGTAAATTCATAGCAATTAGAAACT 473  
 Db 33406 TGGAGTACTTGGAGTTCTAACTGTGATGAGCACGGTAGCTGTCATT-AAG 33464  
 QY 474 CAGAGATAACAAAGCTACCTAGGAAATTATTCAGAGTTAGCATTTACT 533  
 Db 33465 ATATAAAATCAATCCAGACTTATAACATAGCTGAGCTCAA-AGCCCTTATT 33523  
 QY 534 TTCTTGATGAGAAAATAATTGTCAGTTAAACATTTGATTCACAGTCAA 593  
 Db 33524 TTACGTGAAAGGAAATAATGAGTTGTTAGCTTAAACCGATTGGATCCAGTACACAA 33583  
 QY 594 GCAGAGATCTAACATACATATTGATTATGTTGATTCATATTACTGTTG 653  
 Db 33584 GACATT--GCAGTACGACATGTTCTGATAGTACTTAAATGGTGTGATGCTA 33640  
 QY 654 TTGACAC---AATCTAAATTTAGTGTCTGATGAAATTAGTCCTTAATT 708  
 Db 33641 CGTCGACCCATTAAATTCAGTTGAGCTAAATGACATTGTTGAAAT 33700  
 QY 709 TAGTTCTTATTACTTGTATAGTCACAATTAAATTCAGTTAAATT 768  
 Db 33701 AAATGTTCTTATTTACTCTG -- TAGTCTAGCTACATCTAAATGTCCTC 33756  
 QY 769 GATAATTGAGCTTTAAATTTGCACTTAACTTGTGAACTTAACTTGTAAATT 828  
 Db 33757 GGAAATTAGAGTTAAGTGTI---CCCTTAAATTCTG-GAGTGCACATATT 33811  
 QY 829 AACGTAATATAGTCTGTTGAGAGTTAGAAGGGAATAAGTACCTCA 888  
 Db 33812 AATAACATTTAGCTGTTGAGAGTTAGAAGGGAATAAGTACCTCA 889  
 QY 889 CAATCTAAAGACTCTTCAGCTGTTAACAGCATACAGTAACTATCTT 948  
 Db 33870 ATGCTTAAAGATTTCTCAAGTCTC---TTGCTGCTACTGTGATACTCA 33922  
 QY 949 TCTTGCATGCCATCATCACATGAGGGTCAAGGAGCATGATGATG 1008  
 Db 33923 ATTTCGTTGTTATGA-----ATGCAAGTTCTGTTTC 33958  
 QY 1009 GTGGGACTGTCGCAAGCTGACTTAAACAAACAAACCTTACACAA 1068  
 Db 33959 CTATCTGAATGATGGCCCAACCTTGGGCACTTGGGAGCTAGCTGATG 34018  
 QY 1069 CTGTCCTGTTGATGATGATGTTGCTTCTTGTGTTGAGTGT 1128  
 Db 34019 ATATGCTGTTGATGATGCTGACCACTGACTTGTGTTGATG 34078  
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 Db 34139 TCGAGTCTGAGACAGTACGACATTAAATGAGCTGAGCTGCTGCTTA 34198

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QY	2350	-----TGAGACCGAGTCGCTCTGTCGCCAGGAGTCGAATGGCGAGA 2401
Db	35299	CCTCCAAAGACAGATAATGAAAGTCACGGACAGGATAGTTATGC 35358
QY	2462	TGGAGACTGACCAAGGAGACTGTTCACCTCCATTGCTCCTTCT- 2520
Db	35419	TAGACTTTAGAGGTGTCGACTCACTCCATCTTCAATGAGTAAT 2461
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Db	35359	GATCTGGTGGGAAATACTCTTCTATCTTCTTATTATTTCTT 35418
QY	35479	CGTCCTGATGACACTGTGAACTGGCTTAAAGGAAAGGG 35538
QY	2581	GCAAGGAG-----TAGTGAATTCCCCTCCCC 2608
QY	2669	TCTGAGCGGAGGATGGTGTGT--AAGTAGCTCTGTGACAAAG 2725
Db	35659	TCTGATGAGCATGAGTGTAGATAATGAGTGTGTTCTGAGTGTG- 35710
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QY	2906	CTGAAGGGAGGAGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2965
QY	35887	CTGGAGGGAGGCCGCTGGAGGAGGCCGGAGGAGCTGAGAAAGAGAGA 35946
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Db	35947	CTGGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 36006
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RESULT 10		
AC130951	AC130951	259367 bp DNA linear HTG 15-NOV-2002
DEFINITION	Rattus norvegicus clone CH230-2816, *** SEQUENCING IN PROGRESS	
LOCUS	259367	
COMMENT	***, 7 unorderd pieces.	
ACCESSION	AC130951	
VERSION	AC130951_3 GI:25007317	
KEYWORDS	HTG; HTGS PHASE1; HTGS DRAFT; HTGS_ENRICHED.	
SOURCE	Rattus norvegicus (Norway rat)	
ORGANISM	Rattus norvegicus (Norway rat)	
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.		
REFERENCE	1 (bases 1 to 259367)	
AUTHORS	Munzy, D., Marie, M., Lee, Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anquiano, D.,	
REFERENCE	Anyalebechi, V., Ayoggi, A., Ayodeji, M., Baca, B., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnsteed, M., Benchmed, F., Biswalo, K., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buahy, C., Burcin, P., Burteil, K., Calderon, B., Cardenas, V., Carter, K., Cavacos, I., Ceasar, H., Center, A., Chacoo, J., Chavez, D., Chen, G., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., Di Souza, L., Davis, M.L., Davis, C., Davis, C., David, C., Deanda, C., Dederich, D., Delgado, O., Denaro, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Draper, H., Dugas-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escoto, M., Eugene, C., Evans, C.A., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Frasier, C.M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M., Gebrgeoridis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guvara, W., Gunbarrie, P., Haaland, W., Hamilton, K., Hamilton, K., Harvey, Y., Harlak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S.I., Hodges, A., Hogue, M., Hollins, B., Howells, S., Hulyk, S., Hume, J., Idelbri, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A., Kelly, S., Kelly, S., Kelly, S., Khan, Z., King, J., Kovar, C., Karpathy, S., Kelly, S., Kelly, S., Kuan, Z., King, J., Kovar, C., Kowalski, P., Haaland, W., Hamlin, C., Hamilton, K., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lohenshuhe, L., Louissegard, H., Lorado, R.J., Lu, X., Ma, J., Maheshwari, M., Mahindarje, M., Mahmoud, M., Maillo, Y., Maillot, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhinney, S., McLeod, M.P., McNeill, T.Z., Meenehan, E., Milovavilievic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidas, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaokelemba, O., Okwonou, G., Olarinpunsagon, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkoch, C., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L.-L., Puzzo, M., Quiozzi, J., Rachlin, E., Reeves, K., Regier, M.A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rivers, C., Rodkey, T., Rotas, A., Rose, M., Rose, R., Ruiz, S.J., Sanders, W., Sawyer, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsburd, A., Sisson, A., Sitter, C.D., Smajis, D., Sneda, A., Sodegran, E., Song, X.-Z., Sorelle, R., Sosa, J., Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trepos, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Wilson, R., Wilecyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, P., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederauer, N., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G., and Gibbs, R.A.	
TITLE	Unpublished	
REFERENCE	2 (bases 1 to 259367)	
AUTHORS	Rat Genome Sequencing Consortium.	
TITLE	Direct Submission	
JOURNAL	Submitted (15-AUG-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA	
REFERENCE	3 (bases 1 to 259367)	
AUTHORS	Rat genome sequencing Consortium.	
JOURNAL	Submitted (15-Nov-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA	
COMMENT	On Nov 15, 2002 this sequence version replaced gi:2327482. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas ( <a href="http://www.hgsc.bcm.edu/projects/rat/">http://www.hgsc.bcm.edu/projects/rat/</a> ). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled withNs to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature	



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OY	1721	CTCAATACTACTTGTCTTTA	174/2
Db	124522	TTATGGATTCATTTTATTTA	124543
RESULT 11			
DEFINITION	AC094978		
ACCESSION	AC094978	Ratmus norvegicus clone CH230-619, ****, SEQUENCING IN PROGRESS ****,	
VERSION	AC094978	4 unorderded pieces.	
KEYWORDS	AC094978_5	GI:30467213	
SOURCE	HTGS_PHASE1; HTGS_DRAFT; HTGS_ENRICHED;	HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ENRICHED;	
ORGANISM	Rattus norvegicus	Rattus norvegicus (Norway rat)	
AUTHORS	Muzny,D., Marie,A., Metzker,M., Lee,, Abramson,S., Adams,C., Alder,J., Allen,C., Allen,H., Albrooks,S., Amin,A., Anguiano,D., Anylebechi,V., Aviaghi,A., Ayodeji,M., Baca,E., Baden,H., Baldwin,D., Bandaraanake,D., Barber,M., Barnstead,M., Benahmed,F., Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M., Bryant,N., Bubay,C., Burch,P., Burrell,K., Cameron,B., Cardenas,V., Carter,K., Cavaroz,T., Caesar,H., Centex,A., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chu,J., Cleveland,C., Cockrell,R., Cox,C., Coyne,M., Cree,A., D'Souza,L., Davila,M.L., Davis,C., Davy,Carril,L., De Andra,C., Dederich,D., Delgado,O., Denison,S., Demano,C., Ding,Y., Dinn,H., Divya,K., Draper,H., Duan-Rocha,S., Dunn,A., Durbin,B., Eaves,K., Egan,A., Escott,M., Eugene,C.A., Failes,T., Fan,G., Fernández,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P., Frazer,C.M., Gabisi,A., Ganta,R., Garcia,A., Garza,M., Gebregorssis,E., Geer,K., Gill,T., Grady,M., Guerra,W., Gunaratne,P., Haaland,W., Hamil,C., Hamilton,K., Harvey,Y., Havlik,P., Hawes,A., Henderson,N., Hernandez,J., Hernandez,R., Hines,S., Hladun,S.L., Hodges,M., Hollins,B., Howell,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A., Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A., Karpathy,S., Kelly,S., Kelly,S., Khan,Z., King,M., Kovar,C., Kowis,C., Kraft,C.L., Lebow,H., Lavan,J., Lewis,L., Li,Z., Liu,J., Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.J., Lorenshewa,L., Louiseged,H., Lozano,R.J., Lu,X., Ma,J., Maeshwari,M., Mahindaracine,M., Mahmoud,M., Malloy,K., Mangum,A., Mangum,B., Mapia,P., Martin,K., Martin,R., Martinez,E., Mawhinney,S., McLeod,M.P., McNeill,T.Z., Meinen,E., Milosavljevic,A., Miner,G., Ninja,E., Montemayor,J., Moore,S., Morgan,M., Morris,K., Morris,S., Munida,M., Murphy,M., Nair,L., Nankervis,C., Neal,D., Newton,N., Norris,S., Nwaokelemech,O., Okwonuo,G., Olarungsungoon,A., Pal,S., Parks,K., Pasternak,S., Paul,H., Perez,A., Perez,L., Pfannkoch,C., Plopper,F., Poinddexter,A., Popovic,D., Primus,E., Pull-L., Puazo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R., Reilly,B., Reilly,M., Ren,Y., Ruter,M., Richards,S., Riggs,F., Rives,C., Rodkey,T., Rojas,A., Rose,M., Rose,R., Ruiz,S.J., Sanders,W., Sawyer,G., Scheerer,S., Scott,G., Shatsman,S., Shen,H., Shetty,J., Shvartsberg,A., Sisson,I., Sitter,C.P., Smaja,D., Sneed,A., Sodegran,B., Song,K.-Z., Soelle,R., Sosa,J., Svatek,A., Taor,P., Taylor,C., Steinle,M., Strong,G., Sutton,A., Svatek,A., Taor,P., Taylor,C., Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Usmani,K., Valas,R., Vera,V., Villalana,D., Waldron,L., Wajkei,B., Wang,J., Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F., Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V., Yu,F., Zhang,J., Zhou,X., Zhao,S., Dunn,D., von Niederauer,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O., Weinstock,G. and Gibbs,R.A.,	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus norvegicus	
REFERENCE	1 (bases 1 to 26013)		
AUTHORS	Muzny,D., Marie,A., Metzker,M., Lee,, Abramson,S., Adams,C., Alder,J., Allen,C., Allen,H., Albrooks,S., Amin,A., Anguiano,D., Anylebechi,V., Aviaghi,A., Ayodeji,M., Baca,E., Baden,H., Baldwin,D., Bandaraanake,D., Barber,M., Barnstead,M., Benahmed,F., Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M., Bryant,N., Bubay,C., Burch,P., Burrell,K., Cameron,B., Cardenas,V., Carter,K., Cavaroz,T., Caesar,H., Centex,A., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chu,J., Cleveland,C., Cockrell,R., Cox,C., Coyne,M., Cree,A., D'Souza,L., Davila,M.L., Davis,C., Davy,Carril,L., De Andra,C., Dederich,D., Delgado,O., Denison,S., Demano,C., Ding,Y., Dinn,H., Divya,K., Draper,H., Duan-Rocha,S., Dunn,A., Durbin,B., Eaves,K., Egan,A., Escott,M., Eugene,C.A., Failes,T., Fan,G., Fernández,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P., Frazer,C.M., Gabisi,A., Ganta,R., Garcia,A., Garza,M., Gebregorssis,E., Geer,K., Gill,T., Grady,M., Guerra,W., Gunaratne,P., Haaland,W., Hamil,C., Hamilton,K., Harvey,Y., Havlik,P., Hawes,A., Henderson,N., Hernandez,J., Hernandez,R., Hines,S., Hladun,S.L., Hodges,M., Hollins,B., Howell,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A., Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A., Karpathy,S., Kelly,S., Kelly,S., Khan,Z., King,M., Kovar,C., Kowis,C., Kraft,C.L., Lebow,H., Lavan,J., Lewis,L., Li,Z., Liu,J., Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.J., Lorenshewa,L., Louiseged,H., Lozano,R.J., Lu,X., Ma,J., Maeshwari,M., Mahindaracine,M., Mahmoud,M., Malloy,K., Mangum,A., Mangum,B., Mapia,P., Martin,K., Martin,R., Martinez,E., Mawhinney,S., McLeod,M.P., McNeill,T.Z., Meinen,E., Milosavljevic,A., Miner,G., Ninja,E., Montemayor,J., Moore,S., Morgan,M., Morris,K., Morris,S., Munida,M., Murphy,M., Nair,L., Nankervis,C., Neal,D., Newton,N., Norris,S., Nwaokelemech,O., Okwonuo,G., Olarungsungoon,A., Pal,S., Parks,K., Pasternak,S., Paul,H., Perez,A., Perez,L., Pfannkoch,C., Plopper,F., Poinddexter,A., Popovic,D., Primus,E., Pull-L., Puazo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R., Reilly,B., Reilly,M., Ren,Y., Ruter,M., Richards,S., Riggs,F., Rives,C., Rodkey,T., Rojas,A., Rose,M., Rose,R., Ruiz,S.J., Sanders,W., Sawyer,G., Scheerer,S., Scott,G., Shatsman,S., Shen,H., Shetty,J., Shvartsberg,A., Sisson,I., Sitter,C.P., Smaja,D., Sneed,A., Sodegran,B., Song,K.-Z., Soelle,R., Sosa,J., Svatek,A., Taor,P., Taylor,C., Steinle,M., Strong,G., Sutton,A., Svatek,A., Taor,P., Taylor,C., Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Usmani,K., Valas,R., Vera,V., Villalana,D., Waldron,L., Wajkei,B., Wang,J., Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F., Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V., Yu,F., Zhang,J., Zhou,X., Zhao,S., Dunn,D., von Niederauer,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O., Weinstock,G. and Gibbs,R.A.,	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus norvegicus	
COMMENT	On May 9, 2003 this sequence version replaced 91:23101287. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas ( <a href="http://www.hgsc.bcm.tmc.edu/projects/rat/">http://www.hgsc.bcm.tmc.edu/projects/rat/</a> ). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.		
AUTHORS	Baylorn Plaza, Houston, TX 77030, USA	Rat Genome Sequencing Consortium.	
JOURNAL	Submitted (09-MAY-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA		
REFERENCE	3 (bases 1 to 26013)		
AUTHORS	Baylorn Plaza, Houston, TX 77030, USA	Rat Genome Sequencing Consortium.	
JOURNAL	Submitted (09-MAY-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA		
COMMENT	On May 9, 2003 this sequence version replaced 91:23101287. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas ( <a href="http://www.hgsc.bcm.tmc.edu/projects/rat/">http://www.hgsc.bcm.tmc.edu/projects/rat/</a> ). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.		
REFERENCE	Center: Baylor College of Medicine		
AUTHORS	Center code: BCM		
JOURNAL	Web site: <a href="http://www.hgsc.bcm.tmc.edu/">http://www.hgsc.bcm.tmc.edu/</a>		
COMMENT	Contact: hgsc-help@bcm.tmc.edu		
AUTHORS	Center project name: GBVO		
JOURNAL	Center clone name: CH230-619		
COMMENT	----- Summary Statistics		
AUTHORS	Assembly program: Atлас;		
JOURNAL	Consensus quality: 229362 bases at least Q40		
COMMENT	Consensus Quality: 233666 bases at least Q40		
AUTHORS	Estimated insert size: 202426; sum-of-contigs estimation		
JOURNAL	Quality coverage: 6x in Q20 bases; sum-of-contigs estimation		
NOTE:	-----		
COMMENT	* NOTE: Estimated insert size may differ from sequence length * (see <a href="http://www.hgsc.bcm.tmc.edu/docs/Genbank-draft-data.html">http://www.hgsc.bcm.tmc.edu/docs/Genbank-draft-data.html</a> ) .		
AUTHORS	* NOTE: This is a 'working draft' sequence. It currently		
JOURNAL	* consists of 4 contigs. The true order of the pieces		
COMMENT	* is not known and their order in this sequence record is		
AUTHORS	* arbitrary. Gaps between the contigs are represented as		
JOURNAL	* runs of N, but the exact sizes of the gaps are unknown.		
COMMENT	* This record will be updated with the finished sequence		
AUTHORS	* as soon as it is available and the accession number will		
JOURNAL	* be preserved.		
COMMENT	1 252640: contig of 252640 bp in length		
AUTHORS	* 252740: gap of unknown length		
JOURNAL	* 232741 233907: contig of 1167 bp in length		
COMMENT	* 233908 * 256408 255647: contig of 1640 bp in length		
AUTHORS	* 255648 255747: gap of unknown length		
JOURNAL	* 255748 260103: contig of 4356 bp in length.		
COMMENT	----- Features		
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AUTHORS	251148..25640		
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AUTHORS	Unpublished		
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COMMENT	TITLE		
AUTHORS	JOURNAL		

Db	113940	TCCCCCAATAA-----ACATGAGTCTATAGCACAACTGTGACACAGACA	113992
QY	1541	AACAGAGGGAAGTGTTAGCTTAGCTTAAATGGCATCCAGTAGACTGTG	1600
Db	113993	ATACGCCGAAAGTGTGTTGCCATGTTCTA-----TAGAAGTGTG	114036
QY	1601	AATGCGAGTACTTGCTTGAGGAGAGTAAACATATGGCCAGCTGTGACATATAA	1660
Db	114037	ATATGAGTAGTGTCTAAGCTTCAGGGCTAGACATAGGCCAGCTGTGACACAGACA	114096
QY	1661	G3TTCAGACAAAGGAGGSCACCTAAATAATTAAAGAAATAGGAAGGAGACAA	1720
Db	114097	ACCCAGAAGAAAGAAGAAGAGAAAGAATGATGAGAAGAAAATTAAAGGACAT	114156
QY	1721	CCTCACTACTCTGCTTTA 1742	
Db	114157	TTAATGGATTCATTTATTTA 114178	
RESULT	12		
AY023704	AY029704	5570 bp DNA linear ROD 01-SEP-2001	
LOCUS	Mus musculus	serotonin 1A receptor gene, promoter region and	
DEFINITION	partial cds.		
VERSION	AY029704.1	GI:15418779	
KEYWORDS			
SOURCE	Mus musculus (house mouse)		
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus; Parks, C.L. and Shenk, T.		
REFERENCE	1. (bases 5273 to 5360)		
AUTHORS	Ansorge, M., Tammeberger, C., Davies, B., Theuring, F. and Kuserow, H.		
TITLE	Functional analysis of the murine 5-HT <sub>1A</sub> receptor promoter in vitro and in vivo		
JOURNAL	Unpublished		
REFERENCE	2. (bases 1 to 5570)		
AUTHORS	Kuserow, H., Ansorge, M.S. and Theuring, F.		
TITLE	Submitted (10-APR-2001) Institute for Pharmacology and Toxicology, Charite University Hospital, Dorotheenstr. 94, Berlin 10117, Germany		
FEATURES	Location/Qualifiers		
source	1. .5570		
promoter	/organism="Mus musculus"		
mRNA	/mol_type="genomic DNA"		
CD5	/strain="129/Sv"		
	/db_xref="taxon:0090"		
	/chromosome="13"		
	1. .5272		
	5273. .5570		
	/product="serotonin 1A receptor"		
	/citation=[1]		
	5561. >5570		
	/note="G protein coupled-receptor; 5-HT 1A receptor"		
	/codon_start=1		
	/product="serotonin 1A receptor"		
	/protein_id="PAK00428.1"		
	/db_xref="GI:15418780"		
	/translation="MDM"		
ORIGIN			
Query Match	4.7%	Score 144; DB 10; Length 5570;	
Best Local Similarity	48.0%	Pred. No. 1.8e-15;	
Matches	1326;	Conservative 0; Mismatches 1286; Indels 151; Gaps 26;	







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OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 04:24:23 ; Search time 1088 Seconds  
(without alignments).  
1189.488 Million cell updates/sec

Title: US-09-430-412A-1  
Perfect score: 3045  
Sequence: 1 atccataaataatccgtta.....gtggaggatgggatctcg 3045

Scoring table: IDENTITY NUC  
Gapop 1.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : N\_GeneSeq\_28Jan04.\*

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2: geneseqn1990s;\*  
3: geneseqn2000s;\*  
4: geneseqn2001as;\*  
5: geneseqn2001bs;\*  
6: geneseqn2002as;\*  
7: geneseqn2003as;\*  
8: geneseqn2003bs;\*  
9: geneseqn2003cs;\*  
10: geneseqn2004as;\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query Match Length	DB ID	Description	
C 1	1959.2	64.3	3000	AaH88467	
C 2	979.4	32.2	3001	4 AaH88468	
C 3	747.8	24.6	5 AaF75001	AaF75001 Part of H	
C 4	747.8	24.6	2722	5 AaF75003	AaF75003 Part of H
C 5	742.4	24.4	839	3 AAC71827	AAC71827 Single nu
C 6	742.4	24.4	839	3 AAC71824	AAC71824 Single nu
C 7	742.4	24.4	839	3 AAC71830	AAC71830 Single nu
C 8	822.4	27.2	2512	4 AaH88477	AaH88477 CNS disor
C 9	822.4	27.2	2056	7 ABZ10245	ABZ10245 Haematopo
C 10	86.8	2.9	8056	7 ABZ10100	ABZ10100 Haematopo
C 11	83.2	2.7	11745	6 ABK28332	ABK28332 DNA trans
C 12	82.4	2.7	6636	6 ABK12791	Abi132791 Human imm
C 13	81.4	2.7	105325	6 ABK94407	Abi94407 DNA encod
C 14	81.2	2.7	8056	7 ABZ10246	ABZ10246 Haematopo
C 15	80.6	2.7	7056	4 AaH93026	Aah93026 Human int
C 16	78.8	2.6	1987	6 AB133451	Abi133451 Human imm
C 17	77.8	2.6	5063	6 ABK28394	ABK28394 DNA trans
C 18	77	2.5	19634	7 ABZ10161	Abi10161 Haematopo
C 19	76.2	2.5	8056	7 ABZ10100	Abi10100 Haematopo
C 20	75.2	2.5	6317	6 AB132408	Abi132408 Human imm
C 21	75.2	2.5	6317	6 AB149311	Abi149311 Human pol
C 22	75.2	2.5	6465	6 AB132029	Abi132029 Human imm
C 23	75.2	2.5	7351	6 AB132029	Abi132029 Human imm

**ALIGNMENTS**

RESULT 1	ID	Description
XX	AaH88467/C	AaH88467 standard; DNA; 3000 BP.
XX	AaH88467;	
DT	26-FEB-2002	(first entry)
XX	DE	CNS disorder-related biallelic marker #1 from 5HTTA gene.
XX	FH	Single nucleotide polymorphism; SNP; biallelic marker; human; central nervous system disorder; CNS; serotonin receptor; ds.
XX	OS	Homo sapiens.
XX	FT	Key location/Qualifiers
FT	misc_feature	1501
FT		/tag= a
FT		/standard_name= "single nucleotide polymorphism"
XX	PN	W0200151659-A2.
XX	PD	19-JUL-2001.
XX	XX	
PF	11-JAN-2001; 2001WO-1B000116.	
XX		
PR	13-JAN-2000; 2000US-0175854P.	
XX	PA	(GERST ) GENSET.
XX	XX	
PI	Chu T, Blumenfeld M, Cohen D;	
XX	DR	WPI; 2001-483085/52.
PS	XX	Claim 1; Page 335-336; 519pp; English.
XX	PT	Isolated polynucleotides, useful for genotyping nucleic acids for biallelic markers for the diagnosis of depression, comprises central nervous system disorder related biallelic marker.
XX	PT	The present invention relates to biallelic markers derived from human genes involved in central nervous system (CNS) disorders. The present sequence is one such biallelic marker derived from a human serotonin receptor gene. This marker has a single nucleotide polymorphism (SNP) and is useful in determining the genetic predisposition of individuals to CNS disorders, by identifying the nucleotides at a set of genetic markers in

CC	CC	CC	a biological sample, where the markers comprise at least one CNS disorder related marker
XX	XX	XX	sequence 3000 BP; 783 A; 780 C; 665 G; 771 T; 0 U; 1 Other;
SO	Query Match	64.3%	Score 1959.2; Best Local Similarity 99.6%; Pred. No. 0; Matches 2018; Conservative 1; Mismatches 1; Indels 6; Gaps 6;
Oy	1024	CAGAACATAAaaaaaaaaaaaaaaACAAACAAACATTCAGCAACACGTCCTGTATGTA	1083
Db	2900	CTGAATATAAaaaaaaaACAAACAAACATTCAGCAACACGTCCTGTATGTA	2841
Oy	1084	ATGCATGGCCAACTGGATTCTTGTAGCTTGGATGCTCTTGTGCGCTT	1143
Db	2780	GGAGAATTCAAGCTAAGAAATTCAAGCTAGTCAGATGAGCTAGATTTAGATTGTC	2721
Db	2840	ATGCATGGCCAACTGGATTCTTGTAGCTTGGATGCTCTTGTGCGCTT	2781
Oy	1144	GGAGAATTCAAGCTAAGAAATTCAAGCTAGTCAGATGAGCTAGATCTTGGATGCTT	1203
Db	2780	GGAGAATTCAAGCTAAGAAATTCAAGCTAGTCAGATGAGCTAGATTTAGATTGTC	2721
Oy	1204	AATCTGTAGTGAATCTGTTCATGTTATCGATGCTCAACTGCTTGGATGCTT	1263
Db	2720	AATCTGTAGTGAATCTGTTCATGTTATCGATGCTCAACTGCTTGGATGCTT	2661
Oy	1264	TCACTTCGGCATGCAACAGGATGTTAAAGGAATGCTGAGTGTACTGTAG	1323
Db	2660	TCACTTCGGCATGCAACAGGATGTTAAAGGAATGCTGAGTGTACTGTAG	2601
Oy	1324	TGCTCTTGAAGT-CCATCTTACCAATGCTCAATGTTGATTAATG-TTTCCTGTT	1381
Db	2600	TGCTCTTGAAGTCCATTCTTACCAATGCTCAATGTTGATTAATG-TTTCCTGTT	2541
Oy	1382	AAGGAAACAGCTAGAACACCCCTGTTAGTCTTA-TTCTAGTGTAACTT	1440
Db	2540	AAGGAAACAGCTAGAACACCCCTGTTAGTCTTA-TTCTAGTGTAACTT	2481
Oy	1441	CCAAATGTTAAATCTTGGAAATGCTACATATTGTTCTCCACAAAGGAAATT	1500
Db	2480	CCAAATGTTAAATCTTGGAAATGCTACATATTGTTCTCCACAAAGGAAATT	2421
Oy	1501	TATGCTGTTCCAAGTTCAGGTATGAGCAGCACAAACACACAGGTGAAGTGTAG	1560
Db	2420	TATGCTGTTCCAAGTTCAGGTATGAGCAGCACAAACACACAGGTGAAGTGTAG	2361
Oy	1561	CCTAGCTTATTAATGGCATTCAGGTTAGACAGCACAAACACACAGGTGAAGTGTAG	1620
Db	2360	CCTAGCTTATTAATGGCATTCAGGTTAGACAGCACAAACACACAGGTGAAGTGTAG	2301
Oy	1621	TTGAAAGGAAAGTAAACATATATGGCTGTATATAAGGTTCAGCAAAAGGGC	1680
Db	2300	TTGAAAGGAAAGTAAACATATATGGCTGTATATAAGGTTCAGCAAAAGGGC	2241
Oy	1681	ACTTAAATAATTTTAAAGAAATAGAGGAGGACAAACCTCAACTACTCTGCTT	1740
Db	2240	ACTTAAATAATTTTAAAGAAATAGAGGAGGACAAACCTCAACTACTCTGCTT	2181
Oy	1741	TATACATGCTCTCTTCTAAAGTGTGTATTCCTGATATTGCTCATTTCT	1800
Db	2180	TATACATGCTCTCTTCTAAAGTGTGTATTCCTGATATTGCTCATTTCT	2121
Oy	1801	GACATTAAGGGTTCCAGTAGGCACTTAAACATTGAGGTGCGACATTAAC	1860
Db	2062	CTCATCTGTTCAAGGTGACTGTCAGGCTGAAACCGAATTCTGAGATTAAGAGGTGAGC	2003
Oy	1921	CGCTCTCGAACGGGAACTCCAGGACTCTAAACATTGAGGTGCGACATTAAC	2063
Db	2120	-GCTATAGGTGTTCCAGGTGACTCTAAACATTGAGGTGCGACATTAAC	1943
Oy	1861	CTCATCTGTTCAAGGTGACTGTCAGGCTGAAACCGAATTCTGAGATTAAGAGGTGAGC	1920
Db	2002	CGCTCTCGAACGGGAACTCCAGGACTCTAAACATTGAGGTGCGACATTAAC	1943

1981	TCCCTGAAAGGCCATGGAAATGCCAGCTATGGGAGGTGTCAGTGAATTCAAGTG	21040
1942	GTGCAAAGGCATGTCATAATGCCAGCTATGGGAGGTGTCAGTGAATTCA	1883
1882	TCCCTGAAAGGCATGTCATAATGCCAGCTATGGGAGGTGTCAGTGAATTCA	1883
2101	TAGTAGTGATGGAAAGTGIGTGIGTTAGATAATATCAGACTGAGTTGTC	2160
1822	TAGTAGTGATGGAAAGTGIGTGIGTTAGATAATATCAGACTGAGTTGTC	1763
2161	CATTCTGAGATCGAGTTACCTCTCCCTGCTTGACAGTCCTTATTCCT	2220
1762	CATTCTGAGATCGAGTTACCTCTCCCTGCTTGACAGTCCTTATTCCT	1703
2221	TCTCTCCGGTTCCCAAGCTTAAGAAACTCAAGGAATATTCTCCCTGAGGACT	2280
1702	TCTCTCCGGTTCCCAAGCTTAAGAAACTCAAGGAATATTCTCCCTGAGGACT	1643
2281	AAGGCTGAGCTTATGATACGGAGGTACGGAGGTACGGTTGTTGTTGTTGTC	2340
1642	AAGGCTGAGCTTATGATACGGAGGTACGGAGGTACGGTTGTTGTTGTTGTC	1583
1582	GTTTGTGTTGGAGACGGACCTCGCTGCGCCAGGCTGGAAATGGGGAGA	1523
2401	ACGGAGTAGCTTTAACAGAGACACCTCGGGCTCTCCATCAATTAGCAATA	2460
1522	ACGGAGTAGCTTTAACAGAGACACCTCGGGCTCTCCATCAATTAGCAATA	1463
2341	GTTGGAGACTGCCAGGACTCTTCACTTCCATTAGCTCCCTATGCTCTTCT	2520
1462	TGGGAGACTGCCAGGACTCTTCACTTCCATTAGCTCCCTATGCTCTTCT	1403
2521	CATCTCTATGCCACTCTGGATGTCAGCATGAGATTTGGAGATATATAG	2580
1402	CATCTCTATGCCACTCTGGATGTCAGCATGAGATTTGGAGATATATAG	1343
2581	GCAAGGAGTAGCTGGAATCCCTCCCAAGTTTCAACCCAGTTGCTGGGTGG	2640
1342	GCAAGGAGTAGCTGGAATCCCTCCCAAGTTTCAACCCAGTTGCTGGGTGG	1283
2641	AGGGGGAGTTATTGTACACCTTGCTGACCGCA - GEAATCTGGTGTGTA	2699
1282	AGGGGGAGTTATTGTACACCTTGCTGACCGAGATCTGGTGTGTA	1223
2700	AGTTCTGACTCTGTGACACAAAGAGACTCGATGTCAGAAGAGCTGAGCTT	2759
1222	AGTTCTGACTCTGTGACACAAAGAGACTCGATGTCAGAAGAGCTGAGCTG	1163
2760	AGGAGGAGGGACCCAGAGAGGGACCTCTGGTGGGGAGTATGGAGG	2819
1162	AGGAGGAGGGACCCAGAGAGGGACCTCTGGTGGGGAGTATGGAGG	1103
2820	GAGGGTAGTGAGCTGGGGAGGGAGGAGCTGCTTCTGAGGACTCACAGAGGATAATA	2879
1102	GAGGGTAGTGAGCTGGGGAGGGAGGAGCTGCTTCTGAGGACTCACAGAGGATAATA	1043
2880	AAGGGAGTAGTGAGCTGGGGAGGGAGGAGCTGCTTCTGAGGACTCACAGAGGATAATA	2939
1042	AAGGGAGTAGTGAGCTGGGGAGGGAGGAGCTGAGGAGGAGCTGGGGAGGAG	983
2940	AAAGAGCAGAAT	2999
982	AAAGAGCAGAAT	923
3000	AGGGAGAGGGCTACAGACTGAGCTGGGGAGTGGGCTCTCG	3045
922	AGGGAGAGGGCTACAGACTGAGCTGGGGAGTGGGCTCTCG	877

RESULT 2

AHH8468 DT 26-FEB-2002 (first entry)

ID AHH8468 standard; DNA; 3001 BP.

XX XX CNS disorder-related biallelic marker #2 from SHTIA gene.

AC AC

XX XX Single nucleotide polymorphism; SNP; biallelic marker; human; central nervous system disorder; CNS; serotonin receptor; ds.

XX XX Homo sapiens.

FH Location/Qualifiers

FT misc\_feature 1501 /+tag= a /standard\_name= "single nucleotide polymorphism"

XX WO200151659-A2.

XX PN

PD 19-JUL-2001.

XX PP 11-JAN-2001; 2001WO-IB000116.

XX PR 13-JAN-2000; 2000US-017854P.

XX PA (GEST ) GENSET.

XX PI Chu T, Blumenthal M, Cohen D;

XX DR WPI; 2001-483085/52.

PT Isolated polynucleotides, useful for genotyping nucleic acids for PT biallelic markers for the diagnosis of depression, comprises central nervous system disorder related biallelic marker.

PS Claim 1; Page 337; 51pp; English.

XX CC The present invention relates to biallelic markers derived from human genes involved in central nervous system (CNS) disorders. The present sequence is one such biallelic marker derived from a human serotonin receptor gene. This marker has a single nucleotide polymorphism (SNP) and is useful in determining the genetic predisposition of individuals to CNS disorders, by identifying the nucleotides at a set of genetic markers in a biological sample, where the markers comprise at least one CNS disorder related marker.

XX SQ sequence 3001 BP; 654 A; 799 C; 856 G; 678 T; 0 U; 14 Other;

Query Match 32.2%; Score 979.4; DB 4; Length 3001; Best local Similarity 98.7%; Pred. No. 7.2e-176; Matches 1005; Conservative 0; Mismatches 11; Indels 2; Gaps 2; DE 08-MAY-2001 (first entry)

QY 2029 AAATATTCTCATCCGTGTTAGCTGGAAAGTGCTGTTGTTGAAATATACACTG 2088

Db 9 ANATATTCTCATCCGTGTTAGCTGGAAAGTGCTGTTGTTGAAATATACACTG 68

QY 2089 AAATATTCTCATCCGTGTTAGCTGGAAAGTGCTGTTGTTGAAATATACACTG 2148

Db 69 AAATATTCTCATCCGTGTTAGCTGGAAAGTGCTGTTGTTGAAATATACACTG 128

QY 2149 AGTTTGTCCTCATCCGTGTTAGCTGGAAAGTGCTGTTGTTGAAATATACACTG 2208

Db 129 AGTTTGTCCTCATCCGTGTTAGCTGGAAAGTGCTGTTGTTGAAATATACACTG 188

QY 2209 TTATATTCTCTCTCCCGGCCAACGTTAATAAAGTCACAGGATCT 2268

Db 189 TTATATTCTCTCTCCCGGCCAACGTTAATAAAGTCACAGGATCT 248

QY 2269 CCTGAGGGATTAAGCTGGACTGTTAGTAGTAAAGGGAGGTTGAGGTTGAGG 2328

---

RESULT 3

AAFT5001 DT 08-MAY-2001 (first entry)

ID AAFT5001 standard; DNA; 1204 BP.

XX AC AAFT5001;

XX DE Part of HTRIA gene #1.

XX KW 5-hydroxy tryptamine receptor 1A; HTRIA; polymorphism; Tourette's; neuropsychiatric; ds.

XX OS Homo sapiens.

XX PN WO20010884-A1.

XX PD 15-FEB-2001.

XX PR 01-AUG-2000; 2000WO-US040519.

XX PR 06-AUG-1999; 99US-014771P.





**RESULT 6**  
**QY** 2868 GAGGGATAATAAAGGGAGTAGGAGGAAGGGAGACTGAGGGAAAGGCAGGTGGG 2927  
**Db** 600 GAGGGATAATAAAGGGAGTAGGAGGAAGGGAGACTAAGGGAAAGCCAGGGGG 659  
**QY** 2928 AGAGGGGACCAAGAGGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGGG 2987  
**Db** 660 AGAGGGGACCAAGAGGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGGG 719  
**QY** 2988 AAGAGGAATAGGGAGGGGGTACAGGTGACCGTTGGCTTCCTCG 3045  
**Db** 720 AAGAGGAATAGGGAGGGGGTACAGGTGACCGTTGGCTTCCTCG 777

**XX** AAC71824 standard; DNA; 839 BP.

**XX** AAC71824;

**XX** 09-FEB-2001 (first entry)

**DE** Single nucleotide polymorphism containing sequence #551.

**XX** Single nucleotide polymorphism; SNP; human; genetic disease; disease susceptibility; cardiovascular system; endocrine system; neurological system; forensic testing; paternity testing; ds.

**OS** Homo sapiens.

**XX** WO200058519-A2.

**XX** 05-OCT-2000.

**XX** (WHED ) WHITHEAD INST BIOMEDICAL RES.

**PF** 30-MAR-2000; 2000WO-US008440.

**PR** 31-MAR-1999; 99US-0127248P.

**XX** (AFFY-) AFFYMETRIX INC.

**PI** Altshuler D, Cargill M, Daley GQ, Ireland JS, Lander ES, Lipshutz RJ, Patil N, Sklar P;

**XX** WPI: 2000-61172/58.

**PT** Nucleic acid selected from one of 105 genes comprising single nucleotide polymorphisms, allele specific oligonucleotides to the genes are useful for phenotypic correlations, forensics, paternity testing, medicine and genetic analysis.

**XX** Claim 1; Fig 5; 214pp; English.

**PS**

**CC** The present invention is concerned with a number of human single nucleotide polymorphisms (SNPs) which the inventors identified in human genes. These SNPs can be used in disease diagnosis and prediction of an individual's susceptibility to disease, in forensic and paternity testing and in genetic mapping. In particular, the SNPs of the invention can be used to diagnose susceptibility to diseases of the cardiovascular, endocrine and neurological systems, such as coronary artery disease, schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's diseases. Note: The degenerate codon within the sequence represents the position of an SNP, for example the letter S represents a polymorphism where the nucleotide may be C or G

**SQ** Sequence 839 BP; 212 A; 148 C; 287 G; 191 T; 0 U; 1 Other;

**Query Match** 24.4%; Score 742.4; DB 3; Length 839;  
**Best Local Similarity** 98.7%; **Pred.** No. 4; 2e-131; **Matches** 7; **Indels** 2; **Gaps** 2;

**RESULT 7**  
**QY** AAC71830 standard; DNA; 839 BP.

**XX** AAC71830;

**XX** 09-FEB-2001 (first entry)

**DE** Single nucleotide polymorphism containing sequence #553.

**XX** Single nucleotide polymorphism; SNP; human; genetic disease; disease susceptibility; cardiovascular system; endocrine system; neurological system; forensic testing; paternity testing; ds.

**OS** Homo sapiens.

**XX** WO200058519-A2.

**XX** 05-OCT-2000.

**XX** 30-MAR-2000; 2000WO-US008440.

PR 31-MAR-1999; 99US-0127248P.  
 XX  
 PA (WHITED ) WHITHEAD INST BIOMEDICAL RES.  
 PA (AFFY- ) AFFYMATRIX INC.  
 XX  
 PI Altshuler D, Cargill M, Daley GQ, Ireland JS, Lander ES;  
 PI Lipshutz RJ, Patil N, Sklar P;  
 XX WPI; 2000-611722/58.  
 PT Nucleic acid selected from one of 106 genes comprising single nucleotide polymorphisms, allele-specific oligonucleotides to the genes are useful for phenotypic correlations, forensics, paternity testing, medicine and genetic analysis.

PS Claim 1; Fig 5; 214pp; English.

SQ The present invention is concerned with a number of human single nucleotide polymorphisms (SNPs) which the inventors identified in human genes. These SNPs can be used in disease diagnosis and prediction of an individual's susceptibility to disease, in forensic and paternity testing and in genetic mapping. In particular, the SNPs of the invention can be used to diagnose susceptibility to diseases of the cardiovascular, endocrine and neurological systems, such as coronary artery disease, schizophrenia, cancer, autoimmune disease, Alzheimer's and Parkinson's diseases. Note: The degenerate codon within the sequence represents the position of an SNP, for example the letter S represents a polymorphism where the nucleotide may be C or G

SQ Sequence 839 BP; 212 A; 148 C; 287 G; 191 T; 0 U; 1 Other;

Query Match 24.4%; Score 742.4; DB 3; Length 839; Best Local Similarity 98.7%; Pred. No. 4; 2e-11; Matches 768; Conservative 1; Mismatches 7; Indels 2; Gaps 2;

QY 2269 CCCCTGAGGGATGAGCTTGAGCTTGTAGATGATAGTAGCGAGGTTACCGTTGTGTTGTG 2328  
 1 CCCCTGAGGGATGAGCTTGAGCTTGTAGATGATAGTAGCGAGGTTACCGTTGTGTTGTG 60

Db 2329 TCGTGTGTCTGTGTTGAGCTGGAGCTCTCTGTCGAGGAGCTGTCCTCTGCGCCAGCTGGTGC 2368

Db 61 TCGTGTGTCTGTGTTGAGCTGGAGCTCTCTGTCGAGGAGCTGTCCTCTGCGCCAGCTGGTGC 120

QY 2389 AATGCCGAGAGAGGAGTAGTTAAAGAACAATCGCTCTTCATC 2448

Db 121 AATGCCGAGAGAGGAGTAGTTAAAGAACAATCGCTCTTCATC 180

QY 2449 AATTAGCAATAATGGGAGACTAACCCAGACTCTGCACTCCATTAGATTTG 2508

Db 2509 GCTTCCTTCTATCTCTTATGCCACTCTGCACTCTCCATTAGATTTG 2568

Db 181 AATTAGCAATAATGGGAGACTAACCCAGACTCTGCACTCCATTAGATTTG 240

Db 241 GCTTCCTTCTATCTCTTATGCCACTCTGCACTCTCCATTAGATTTG 300

QY 2569 AGATATAATGAGCAAGGAGTAGTTGGATTCCTCCCAAGTTTCAACCCAGTT 2628

Db 301 AGATATAATGAGCAAGGAGTAGTTGGATTCCTCCCAAGTTTCAACCCAGTT 360

QY 2629 TCTCTGGTGTGGGGAGTTATTTGTTACACCTGGTGTGACGGGA-GATCTGG 2687  
 361 TCTCTGGTGTGGGGAGTTATTTGTTACACCTGGTGTGACGGGA-GATCTGG 420

QY 2688 TGTGTGTAGTGTCTCGAGTCTGTGACAAAGAGACTCGAATGCAAAGCTG 2747

Db 421 TGTGTGTAGTGTCTCGAGTCTGTGACAAAGAGACTCGAATGCAAAGCTG 480

QY 2748 AGTAGAGGGAGGGAGGGAGCCAGAGGAAGGGAGCTCTGGGGAA 2807

Db 481 AGCTAGAGGGAGGGAGGGAGCCAGAGGAAGGGAGCTCTGGGGAA 540

QY 2808 GTATTAGGGGGGGTAGTGTGGGGAGGGAGCTGAAAGACTCGAATGCAAAGCTG 2867

RESULT 8  
 AAH8477  
 ID AAH8477 standard; DNA; 2512 BP.  
 XX  
 AC AAH8477;  
 XX  
 DT 26-FEB-2002 (first entry)  
 XX DE CNS disorder-related biallelic marker #11 from SH1A gene.  
 XX KW Single nucleotide polymorphism; SNP; biallelic marker; human; central nervous system disorder; CNS; serotonin receptor; ds.  
 XX OS Homo sapiens.  
 XX PR  
 FF KEY Location/Qualifiers  
 FT misc\_feature 1501  
 FT /\*tag= ^standard\_name= "single nucleotide polymorphism"  
 XX PN WO200151559-A2.  
 XX PD 19-JUL-2001.  
 XX PP 11-JAN-2001; 2001WO-IB000116.  
 XX PR 13-JAN-2000; 200005-0175854P.  
 XX PA (GEST ) GENSET.  
 XX PI Chu T, Blumentfeld M, Cohen D;  
 XX DR WPI; 2001-483085/52.

PS Claim 1; Page 344-345; 519pp; English.

SQ Isolated polynucleotides, useful for genotyping nucleic acids for biallelic markers for the diagnosis of depression, comprises central nervous system disorder related biallelic marker.

SQ The present invention relates to biallelic markers derived from human genes involved in central nervous system (CNS) disorders. The present sequence is one such biallelic marker derived from a human serotonin receptor gene. This marker has a single nucleotide polymorphism (SNP) and is useful in determining the genetic predisposition of individuals to CNS disorders, by identifying the nucleotides at a set of genetic markers in a biological sample, where the markers comprise at least one CNS disorder related marker

SQ Sequence 2512 BP; 537 A; 698 C; 748 G; 522 T; 0 U; 7 Other;

Query Match 17.2%; Score 522.4; DB 4; Length 2512; Best Local Similarity 98.6%; Pred. No. 2.3e-89; Matches 548; Conservative 0; Mismatches 6; Indels 2; Gaps 2;

QY 2491 CCCATCAGGCTCCCTATGGCTCTTCATCTCATGCACTGTGGATGCTGAC 2550  
 1 CCCATCAGGCTCCCTATGGCTCTTCATCTCATGCACTGTGGATGCTGAC 60

Db



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## Om nucleic - nucleic search, using sw model

Run on:

April 10, 2004, 12:31:35 ; Search time 8774 Seconds

(without alignments)

1221.276 Million cell updates/sec

Title:

US-09-430-412a-1

Perfect score:

3045

Sequence:

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Scoring table:

IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched:

37577330 seqs, 1793059518 residues

Total number of hits satisfying chosen parameters:

75154660

Minimum DB seq length:

200000000

Maximum DB seq length:

200000000

Post-processing:

Minimum Match 0%

Pending Patents NA Main:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score Match	Length	DB	ID	Description
1	3042.2	99.9	3045	20	US-09-430-412a-1
2	2721	89.7	13269	103	US-60-666-442-8306
3	2731	89.7	14011	107	US-60-500-315-11863
4	2730.6	89.7	13482	107	US-60-500-315-11364
5	1381.4	45.4	2112	76	US-60-205-423-94
6	747.8	24.6	1204	1	PCT-US00-4051-1
7	747.8	24.6	1204	43	US-10-049-407-1
8	747.8	24.6	2122	1	PCT-US00-40519-3
9	747.8	24.6	2722	43	US-10-049-407-3
10	742.4	24.4	839	23	US-09-541-945-2477
11	742.4	24.4	839	23	US-09-541-945-2478
12	742.4	24.4	839	23	US-09-541-945-2479
13	428.2	14.1	559	26	US-09-634-310B-196187
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15	428.2	14.1	559	43	US-10-037-632-196186
16	428.2	14.1	559	43	US-10-027-632-196187
17	361.2	11.9	378	21	US-09-528-402-45109
18	361.2	11.9	378	38	US-09-528-402-45109
19	361.2	11.9	378	38	US-09-528-402-45109
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21	320.2	10.5	452	38	US-09-533-524-48578
22	320.2	10.5	452	38	US-09-533-524-48578
23	194.8	6.4	241	23	US-09-540-220-13492
24	174.6	5.7	201	107	US-60-500-115-21639
25	125.6	4.1	7218	8	US-09-466-194-14
26	95	3.1	1275	48	US-10-266-090-30337
27	89.9	2.9	8056	52	US-10-473-156-386
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29	86.8	2.9	8056	52	US-10-473-126-240
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31	83.6	2.8	1921	81	US-10-207-418-18907
32	85.6	2.8	144759	78	US-60-226-176-511
33	85.6	2.8	144759	79	US-60-233-468-511
34	85.6	2.8	144759	79	US-60-313-371-511
35	85.4	2.8	1326	28	US-09-663-779-8205
36	85	2.8	618	20	US-09-504-520-13771
37	83.6	2.7	824	76	US-10-207-418-18907
38	83.6	2.7	245797	39	US-09-947-911-311
39	83.4	2.7	1040	48	US-10-266-090-12299
40	83.2	2.7	11745	47	US-10-240-433-206
41	83	2.7	742	28	US-09-663-779-3024
42	83	2.7	1140	48	US-10-266-090-19455
43	83	2.7	187169	39	US-09-949-016-12776
44	83	2.7	19159	39	US-09-949-016-12776
45	82.8	2.7	1107	48	US-10-266-090-23011

## ALIGNMENTS

RESULT 1

US-09-430-412A-1

Sequence 1, Application US/09430412A

GENERAL INFORMATION:

APPLICANT: Albert Paul; and Lemonde, Sylvie

TITLE OF INVENTION: Mutations of the 5' region of the human 5-HT1A gene,

TITLE OF INVENTION: associated proteins of the 5' region and a diagnostic

TITLE OF INVENTION: test for major depression and related mental illnesses

FILE REFERENCE: 881014051

CURRENT APPLICATION NUMBER: US/09-430,412A

PRIORITY FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 7

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1

LENGTH: 3045

TYPE: DNA

ORGANISM: human

QY	1021	CAGCTGAACTATAAAGAACAAACCTATCCAAACACATGTCTGATT	1080	QY	2101	TAGTAGCTGAAAGTGIGTGIGTTGAATATATCACACTGACTTGTCT	2160
Db	1021	CAGCTGAACTATAAAGAACAAACCTATCCAAACACATGTCTGATT	1080	Db	2101	TAGTAGCTGAAAGTGIGTGIGTTGAATATATCACACTGACTTGTCT	2160
QY	1081	GTAATCGATGGCCAACTGATGTTGATGTTGATGCTTGTCTTGG	1140	QY	2161	CATTGAGAAGCAGTGTGTTACTCTCCCTGCTTGACACGCTTATATTGT	2220
Db	1081	GTAATCGATGGCCAACTGATGTTGATGTTGATGCTTGTCTTGG	1140	Db	2161	CATTGAGAAGCAGTGTGTTACTCTCCCTGCTTGACACGCTTATATTGT	2220
QY	1141	CTTSGAGAAATGAGCTATGAACTCAAGCTAGTTGAGATGAACTAT	1200	QY	2221	TCTCTCGGTTCCCACGTTAAAAAAGTCAGGERATATCTCCCTGAGGAGT	2280
Db	1141	CTTSGAGAAATGAGCTATGAACTCAAGCTAGTTGAGATGAACTAT	1200	Db	2221	TCTCTCGGTTCCCACGTTAAAAAAGTCAGGERATATCTCCCTGAGGAGT	2280
QY	1201	TGCAATCTGAGGATCTGTTCTGTTCCAGTCACTGTTGAGATGCTTC	1260	QY	2281	AAGGCTGACTTGTAGTACGCSAGGACCGGTTGTTGTTGTTGTTGTTGTC	2340
Db	1201	TGCAATCTGAGGATCTGTTCTGTTCCAGTCACTGTTGAGATGCTTC	1260	Db	2281	AAGGCTGACTTGTAGTACGCSAGGACCGGTTGTTGTTGTTGTTGTC	2340
QY	1261	CTTCCTCTGGCATGCAATCAGATGTTAGTGAATGAACTTGTGTTTGT	1320	QY	2341	GTGTTGTTGAGAGGAGCTGCTGCTCTGCCCCAGGTGGAGTGCAATGCCGAGA	2400
Db	1261	CTTCCTCTGGCATGCAATCAGATGTTAGTGAATGAACTTGTGTTTGT	1320	Db	2341	GTGTTGTTGAGACGGACTCGCTGCTGCCCCAGGTGGAGTGCAATGCCGAGA	2400
QY	1321	TAGTGCCTAGAGTCATCTTACCAATGCTCAATGTGTTAATTTGTTACTG	1380	QY	2401	ACGGAGTAGCTTTAACAGGAGCACCTGTTGAGTACTTATTGAGTACATT	2460
Db	1321	TAGTGCCTAGAGTCATCTTACCAATGCTCAATGTGTTAATTTGTTACTG	1380	Db	2401	ACGGAGTAGCTTTAACAGGAGCACCTGTTGAGTACTTATTGAGTACATT	2460
QY	1381	TAAGGAAACAGCTTAGAACAAACCTGTTAGTGAATTTGTTCTGTTACTG	1440	QY	2461	TGGGAGACTGACCCAGGACTTCCACTCCATCAGGCTCCCTATGCTCTTCT	2520
Db	1381	TAAGGAAACAGCTTAGAACAAACCTGTTAGTGAATTTGTTCTGTTACTG	1440	Db	2461	TGGGAGACTGACCCAGGACTTCCACTCCATCAGGCTCCCTATGCTCTTCT	2520
QY	1441	CCAAATGTTAAATCATGTTGAAATGCAACTATCTGTTCTCAACAAAGTAATT	1500	QY	2521	CATCTCCATATGCCACTCTGGATGCTGACAGCAGTTAAATTTGGCAATAATGAG	2580
Db	1441	CCAAATGTTAAATCATGTTGAAATGCAACTATCTGTTCTCAACAAAGTAATT	1500	Db	2521	CATCTCCATATGCCACTCTGGATGCTGACAGCAGTTAAATTTGGCAATAATGAG	2580
QY	1501	TATGTCAGTCAAGTTCAGGTATGACGACAAACACAGGAAAGGTGTTAG	1560	QY	2581	GCAGGAGTAGTTGATTCCCTCCCAAGTTTCCAAACCCAGTTTCTGCTGTT	2640
Db	1501	TATGTCAGTCAAGTTCAGGTATGACGACAAACACAGGAAAGGTGTTAG	1560	Db	2581	GCAGGAGTAGTTGATTCCCTCCCAAGTTTCCAAACCCAGTTTCTGCTGTT	2640
QY	1561	CCTAGCTTAAATGGATCCAGTAGACTGTGAAAGACAGTACTCAGCT	1620	QY	2641	ACGGGGAGTTATTGTTACACCTTGCTGACCCGAGATCTGGTGTTGAGTGA	2700
Db	1561	CCTAGCTTAAATGGATCCAGTAGACTGTGAAAGACAGTACTCAGCT	1620	Db	2641	ACGGGGAGTTATTGTTACACCTTGCTGACCCGAGATCTGGTGTTGAGTGA	2700
QY	1621	TTGGAGGAACTAAACATATAATAGGCTGATAATAAGGTCAGCAAAAGAGGC	1680	QY	2701	GTCTGAGTCCTGTTGACAAAGAGACTGAACTGAAAGACGCTGAGTAGAGGAGA	2760
Db	1621	TTGGAGGAACTAAACATATAATAGGCTGATAATAAGGTCAGCAAAAGAGGC	1680	Db	2701	GTCTGAGTCCTGTTGACAAAGAGACTGAACTGAAAGACGCTGAGTAGAGGAGA	2760
QY	1681	ACTAAATAATTAAAGAAATAGGAGGAGCAAACTAACTACTACCTGCTT	1740	QY	2761	GGGGGGGACCAGAGGAAGAGGCACTCTGGGTTGGGGAGTTAGGAGGG	2820
Db	1681	ACTAAATAATTAAAGAAATAGGAGGAGCAAACTAACTACTACCTGCTT	1740	Db	2761	GGGGGGGACCAGAGGAAGAGGCACTCTGGGTTGGGGAGTTAGGAGGG	2820
QY	1741	TATACTGTCCTCTCTAAAGTGTCTCTCTAACTGCTCATTTCT	1800	QY	2821	AGGGTTAGATGGGAGGAGAGGAGCTGAGGAGGAGGAGGAGGAGGAGGAGA	2880
Db	1741	TATACTGTCCTCTCTAAAGTGTCTCTCTAACTGCTCATTTCT	1800	Db	2821	AGGGTTAGATGGGAGGAGAGGAGCTGAGGAGGAGGAGGAGGAGGAGA	2880
QY	1801	GCGAAAGGTTCCAGATGCACTAAACATTGCAAGAGGTGGGAATAAAC	1860	QY	2881	AGGGAGTAGGAGGAGGAGGAGCTGAGGAGGAGGAGGAGGAGGAGGAGA	2940
Db	1801	GCGAAAGGTTCCAGATGCACTAAACATTGCAAGAGGTGGGAATAAAC	1860	Db	2881	AGGGAGTAGGAGGAGGAGGAGCTGAGGAGGAGGAGGAGGAGGAGA	2940
QY	1861	CTCATGCTTAGAATGTCCTGGCTGACCCAGGTCTGAGTTAGAGGGCTAG	1920	QY	2941	AGAGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGAATA	3000
Db	1861	CTCATGCTTAGAATGTCCTGGCTGACCCAGGTCTGAGTTAGAGGGCTAG	1920	Db	2941	AGAGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGAATA	3000
QY	1921	CGGCTAGCGAACCGGATTCACCAAGTTCCAGGTTCTGAGGTTCTGAGA	1980	QY	3001	GGGAGGAGGTACAGGAGGAGCCTGGGATGGGAGTGGGCTCTG	3045
Db	1921	CGGCTAGCGAACCGGATTCACCAAGTTCCAGGTTCTGAGGTTCTGAGA	1980	Db	3001	GGGAGGAGGTACAGGAGGAGCCTGGGATGGGAGTGGGCTCTG	3045
QY	1981	GTGCAAAGGCCATGAAAGCTGAACTGAACTATGCAAATATTCA	2040				
Db	1981	GTGCAAAGGCCATGAAAGCTGAACTGAACTATGCAAATATTCA	2040				
QY	2041	TCCCTGAAATTACTGACCAAAAGTATGGAGTGGAGTGTCAACTACAG	2100				
Db	2041	TCCCTGAAATTACTGACCAAAAGTATGGAGTGGAGTGTCAACTACAG	2100				

RESULT 2

; Sequence

; GENERAL INFORMATION:

; APPLICANT: CARGILL, Michele

; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH

; TITLE OF INVENTION: MYOCARDIAL INFARCTION METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001466  
; CURRENT APPLICATION NUMBER: US/60/466,412  
; CURRENT FILING DATE: 2003-04-30  
; NUMBER OF SEQ ID NOS: 429241  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 83506  
; LENGTH: 13269  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-60-466-412-83506

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61	AGATAGAGCTCATCCTTA-CAGAGCTTGGTGCAGCATTTACTTAAGGATA	QY	118		
2614	AGATAGAGCTCATCCTTAAGCTGCAGGAGCTTGGTGCAGCATTTACTTAAGGATA	QY	267		
119	TTGGTATCTGATCTTAAGGTTAACATGAAATAGCTAGTGAAGAATGATG	QY	178		
2674	TTGGTATCTGATCTTAAGGTTAACATGAAATAGCTAGTGAAGAATGATG	QY	273		
179	AACGCAATATCATCTGCATATCTATTATATATACAGATATAGTT-AA	QY	237		
2733	AAACGCAATATCATCTGCATATCTATTATATACAGATATAGTT-AA	QY	279		
238	AGCTAACTATCATCTGCATATCTATTATATACAGATATAGTT-AA	QY	297		
2793	AAGCTAACTATCATCTGCATATCTATTATACAGATATAGTT-AA	QY	285		
298	GAATACCTCGACTCTGTTCCCTCTAGATCTATAGTGCTCTTGAAGCT	QY	357		
2852	ATA---CTCTACATCTCTGTTCCCTCTAGATCTATAGTGCTCTTGAAGCT	QY	290		
358	TAAATGTAAGAAATAAATGTTGATATGATATGATATGAAACT	QY	417		
2968	GAATTACTTGATTGTTAAACTTGATAATATGATATGATATGAAACT	QY	302		
2908	TAAATGTAAGAAATTAATGTTGATATGATATGATATGATATGAAACT	QY	296		
418	GAATTACTTGATTGTTGAAACTTGATAATCTCACATGATAGATGAAACT	QY	477		
2965	GAATTACTTGATTGTTGAAACTTGATAATCTCACATGATAGATGAAACT	QY	302		
478	AATACAAATGCTACTCTGAAATTTAACTTGATAATCTCACATGATAGATGAAACT	QY	537		
3027	AATACAAATGCTACTCTGAAATTTAACTTGATAATCTCACATGATAGATGAAACT	QY	3086		
538	TGATGAAAATAATGTTGCACTTAACTATTGGATCAAAGATGAGCA	QY	596		
3087	TGATGAAAATAATGTTGCACTTAACTATTGGATCAAAGATGAGCA	QY	3146		
597	GAATCTRACTACATATTGATTGTTGATATGATATGTTGTT	QY	656		
3147	GAATCTRACTACATATTGATTGTTGATATGTTGTT	QY	3206		
657	GACACAACTCTTAAATTGTTGATATGATATGTTGTT	QY	716		
3207	GACACAACTCTTAAATTGTTGATATGATATGTTGTT	QY	3266		
777	AGCTTAAATTTCCTTAACTTTCCTATATTGTCAGCTTAACCTATTAACTGAA	QY	836		
717	CTTATTACTTGTTATGCTCTACATTAATTCAGGTTAAATTGATAATTC	QY	776		
3267	CTTATTACTTGTTATGCTCTACATTAATTCAGGTTAAATTGATAATTC	QY	3326		
837	ATATAGCTGATTGAGAGACTTAGAGGAGAAATAGATACCTCACAACTT	QY	896		

Db	3385	ATATGTCGTATTGTGAGAGACTTGTAGAGTGAAATAGATCCACAAATCTT	3444
QY	897	-AAGAACCTCTCAAGCTGTAACAGCTTACCGTAACTCTTCTTTTGCG	955
Db	3445	AAGAACCTCTCAAGCTGTAACAGCTTACCGTAACTCTTCTTTTGCG	3504
QY	956	ATGCCCTT-ATGATCATCACATGAGCTGGCAGCTGTTGAGTGTG-AATGATGAGT	1010
Db	3505	AATGCATGAATCATCACAAATGGCAGGCTATGGTGGCATGCTGAAATGATGAGT	3564
QY	1011	GGAACCTGGCCAGACTGAACTAAACAAACAAACACCTATCCAAACA	1066
Db	3565	GGGAACTCTGGCTGGAGATCTGAGCTGAGGTGAGCTGTTGAGTGTGAGT	3624
QY	1057	CACTGCTGATGATGATGATGCCCAACTGGTTTGTGCTTGTGATGCTTGTGATG	1126
Db	3625	CACTGCTGATGATGATGATGCCCAACTGGTTTGTGCTTGTGATGCTTGTGATG	3684
QY	1127	CTCTTCTTGGCTGGAGATCTGAGCTGAGGTGAGCTGTTGAGTGTGAC	1186
Db	3685	CTCTTCTTGGCTGGAGATCTGAGCTGAGGTGAGCTGTTGAGTGTGAC	3744
QY	1187	AATATTAGATTATGAACTCTGAGTGAATCTGATGTTCAAGTCACIGCT	1246
Db	3745	AATATTAGATTATGAACTCTGAGTGAATCTGATGTTCAAGTCACIGCT	3804
QY	1247	TTCAGATGCACTCCCTCACCTCAGCATCAATGAGGTATAGTAATGTCAC	1306
Db	3805	TTCAGATGCACTCCCTCACCTCAGCATCAATGAGGTATAGTAATGTCAC	3864
QY	1307	TGTTAGTTTACTGAGTGTGCTTAGGT-CCATTCTTACAACTGCTCAATGATA	1365
Db	3865	TGTTAGTTTACTGAGTGTGCTTAGGT-CCATTCTTACAACTGCTCAATGATA	3924
QY	1366	AATTG-TTCTGTGTAAGGAACAGCTAGAACAAACCTGAGTAACTTTA-TT	1423
Db	3925	AATTGTTTCTGTTAAAGGAACAGCTAGAACAAACCTGAGTAACTTTA-TT	3984
QY	1424	TAGTGTATTACATTCCAATGTAATCATTGGAATGCAATACATTGTTCT	1483
Db	3985	TAGTGTATTACATTCCAATGTAATCATTGGAATGCAATACATTGTTCT	4044
QY	1484	CCACAAAGGAAATGTCAGTCCAAAGCTAGTGAACAAACACACAC	1543
Db	4045	CCACAAAGGAAATGTCAGTCCAAAGCTAGTGAACAAACACACAC	4104
QY	1544	ACAGGGAAGTGTGCTGAGCTTTATAAATGCAATTCCAGTTAACTTGAA	1603
Db	4105	ACAGGGAAGTGTGCTGAGCTTTATAAATGCAATTCCAGTTAACTTGAA	4164
QY	1604	GACAGTACTCAGGTTCAAGGAGCTAAAGATAATAGCCGATATAAGT	1663
Db	4165	GACAGTACTCAGGTTCAAGGAGCTAAAGATAATAGCCGATATAAGT	4224
QY	1664	TCAGGAAGAGGCACTAAATAATTAAAGAAATAGGAGGAGCAACTC	1723
Db	4225	TCAGGAAGAGGCACTAAATAATTAAAGAAATAGGAGGAGCAACTC	4284
QY	1724	AATACCTCTGTTTAATACGTCCTCTCTTCTAAAGTTGTGTTATTCTCA	1783
Db	4285	AATACCTCTGTTTAATACGTCCTCTCTTCTAAAGTTGTGTTATTCTCA	4344
QY	1784	ATATGCTCTATTGCTGAGGTTCAGATGAGCTAAACATGGCGA	1843
Db	4345	ATATGCTCTATTGCTGAGGTTCAGATGAGCTAAACATGGCGA	4403
QY	1844	GTTGGGAGCTAAACCTCATGGCTGAGCTGCTCCGGTGTGACCAAGTT	1903
Db	4404	GTTGGGAGCTAAACCTCATGGCTGAGCTGCTCCGGTGTGACCAAGTT	4462
QY	1904	GATTAAGAGGCTAGCCGAGCTAGGAAACGGGATTCACCAAGTTCCCGAGGTT	1963
Db	4463	GATTAAGAGGCTAGCCGAGCTAGGAAACGGGATTCACCAAGTTCCCGAGGTT	4522

Qy	1964	GCAAGGCTCTGGTAAAGAGTCGAAAGGCCATGTGAATGCCAGGCTTCACTTGACACA	2023	Qy	3043	TCG 3045
Db	4523	GCAGGCTCTGGTAAAGAGTCGAAAGGCCATGTGAATGCCAGGCTTCACTTGACACA	4582	Db	5603	TCG 5605
Qy	2024	TATGCAAATTTCATCCCTGAATTAGTGCAAAAGCCATGTGAATGCCAGGCTTCACTTGACACA	2083	Qy	3043	TCG 3045
Db	4583	TATGCAAATTTCATCCCTGAATTAGTGCAAAAGCCATGTGAATGCCAGGCTTCACTTGACACA	4642	Db	5603	TCG 5605
Qy	2084	CACTGAATTACAAAGGTAGTAGTGATGGAAAGGTGTTGGAGTGTGTTAGATAATACA	2143	Qy	3043	TCG 3045
Db	4643	CACTGAATTACAAAGGTAGTAGTGATGGAAAGGTGTTGGAGTGTGTTAGATAATACA	4702	Db	5603	TCG 5605
Qy	2144	CACTGAATTACAAAGGTAGTAGTGATGGAAAGGTGTTGGAGTGTGTTAGATAATACA	2203	Qy	3043	TCG 3045
Db	4703	CACTGAATTTCATCCCTGAATTAGTGCAAAAGCCATGTGAATGCCAGGCTTCACTTGACACA	4762	Db	5603	TCG 5605
Qy	2204	GTCTTTATAATTTCGTCCTCCCGTTCGCCAACGTTAACAGTAAAGTGTTGAGTATATCA	2263	Qy	3043	TCG 3045
Db	4763	GTCTTTATAATTTCGTCCTCCCGTTCGCCAACGTTAACAGTAAAGTGTTGAGTATATCA	4822	Db	5603	TCG 5605
Qy	2264	ATTCCTCCTGAGGGTAAAGCTGTAGTGTAGTAAAGTGTTGAGTATATCA	2323	Qy	3043	TCG 3045
Db	4823	ATTCCTCCTGAGGGTAAAGCTGTAGTGTAGTAAAGTGTTGAGTATATCA	4882	Db	5603	TCG 5605
Qy	2324	TGTTGCGTCTGTTGCTGTTGAGGAGGAGGCTGCTGTCGCGCAGGCTG	2383	Qy	3043	TCG 3045
Db	4883	TGTTGCGTCTGTTGCTGTTGAGGAGGCTGCTGTCGCGCAGGCTG	4942	Db	5603	TCG 5605
Qy	2384	AGTGCAATGGGGAGACGGAGGAGCTTAAACAGAACACATCGCTCT	2443	Qy	3043	TCG 3045
Db	4943	AGTGCAATGGGGAGACGGAGGAGCTTAAACAGAACACATCGCTCT	5002	Db	5603	TCG 5605
Qy	2444	CCATCAATTAGCAATAATGGGAGACTGACCCAGACTGTCTCCATTCAGGCTC	2503	Qy	3043	TCG 3045
Db	5003	CCATCAATTAGCAATAATGGGAGACTGACCCAGACTGTCTCCATTCAGGCTC	5162	Db	5603	TCG 5605
Qy	2504	CCTATGCTTCTCTTCATCTCTTGTGCACTTGGAATGAGATTAAGAT	2563	Qy	3043	TCG 3045
Db	5063	CCTATGCTTCTCTTCATCTCTTGTGCACTTGGAATGAGATTAAGAT	5122	Db	5603	TCG 5605
Qy	2564	TGGCGATAATAATGGCAGGAGTGTGAACTTCCTCCCAAGTTTCAACC	2623	Qy	3043	TCG 3045
Db	5123	TGGCGATAATAATGGCAGGAGTGTGAACTTCCTCCCAAGTTTCAACC	5182	Db	5603	TCG 5605
Qy	2624	CAGTTGCTGGTTGGAGGAGTGTGAACTTCCTCCCAAGTTTCAACC	2682	Qy	3043	TCG 3045
Db	5183	CAGTTGCTGGTTGGAGGAGTGTGAACTTCCTCCCAAGTTTCAACC	5242	Db	5603	TCG 5605
Qy	2683	TCTGGTGTGTAAGTGAGTCGCTCTGACAAAGAGACTGAATCAAAAGA	2742	Qy	3043	TCG 3045
Db	5243	TCTGGTGTGTAAGTGAGTCGCTCTGACAAAGAGACTGAATCAAAAGA	5002	Db	5603	TCG 5605
Qy	2743	CCTGAGCTAAGGGAGGGAGGGAGGGAGGGAGGGAGGGAGGGAGGG	2802	Qy	3043	TCG 3045
Db	5303	CCTGAGCTAAGGGAGGGAGGGAGGGAGGGAGGGAGGGAGGGAGGG	5362	Db	5603	TCG 5605
Qy	2803	GCGAAATTAGGAGGGAGGGAGGGAGGGAGGGAGGGAGGGAGGGAGGG	2862	Qy	3043	TCG 3045
Db	5363	GCGAAATTAGGAGGGAGGGAGGGAGGGAGGGAGGGAGGGAGGGAGGG	5422	Db	5603	TCG 5605
Qy	2863	TCACAGAGGATAATAAGGGAGTGGAGGAGGGAGCTGAAAGGGAGGG	2222	Qy	3043	TCG 3045
Db	5423	TCACAGAGGATAATAAGGGAGTGGAGGAGGGAGCTGAAAGGGAGGG	5482	Db	5603	TCG 5605
Qy	2923	TGGGAGAGGGGAGAAAGGGAGGGAGAGAGAGAGAGAGAGAGAGAGAG	2982	Qy	3043	TCG 3045
Db	5483	TGGGAGAGGGGAGAAAGGGAGGGAGAGAGAGAGAGAGAGAGAGAGAG	5542	Db	5603	TCG 5605
Qy	2983	GGGGAGAGGAATAAGGGAGGGAGGGAGAGAGAGAGAGAGAGAGAGAG	3042	Qy	3043	TCG 3045
Db	5543	GGGGAGAGGAATAAGGGAGGGAGGGAGAGAGAGAGAGAGAGAGAGAG	5002	Db	5603	TCG 5605

RULE 3  
US-60-500-315-11863  
Sequence 11863, Application US/60500315  
GENERAL INFORMATION:  
APPLICANT: CARGILL, Michele  
TITLE OF INVENTION: ENCODING HUMAN G-PROTEIN COUPLED RECEPTOR PROTEINS, METHODS  
TITLE OF INVENTION: OF DETECTION AND USES THEREOF  
FILE REFERENCE: CJO01484  
CURRENT APPLICATION NUMBER: US/60/500,315  
NUMBER OF SEQ ID NOS: 6998  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO: 11863  
LENGTH: 14011  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-60-500-315-11863

Query Match Score 89.7%; Best Local Similarity 97.4%; Pred. No. 0; Matches 2984; Conservative 5; Mismatches 45; Indels 29; Gaps 20;

Qy 1 ATCATCAATAATCCATTAAAGCTTGTGTTCTTGTGTTAACTTGTAGGCTGTA 60  
Db 723 ATCATCAATAATCCATTAAAGCTTGTGTTCTTGTGTTAACTTGTAGGCTGTA 782  
Qy 61 AGATAGAGCTCATCTCTT-CAGGAGCTTGTGTTGAGCATTCTTAAAGATA 118  
Db 843 TTGGTATTCCTCATCTTGTGTTAGTAACTAGAGAAATGGCTAAGTGAAGA 901  
Qy 783 AGATAGAGCTCATCTCTTGTGTTGAGGAGCTTGTGTTGAGCATTCTTAAAGATA 842  
Db 119 TTGGTATTCCTCATCTTAACTAGTAACTAGAGAAATGGCTAAGTGAAGA 178  
Qy 843 TTGGTATTCCTCATCTTGTGTTAGTAACTAGAGAAATGGCTAAGTGAAGA 901  
Qy 179 AAACGCAATTATCTGCAATTATCTTATATATATATACAGTTATAGTTT-AA 237  
Db 902 AAACGCAATTATCTGCAATTATCTTATATATACAGTTATAGTTTAA 961  
Qy 238 AACTTAACTATACTCTTATATGCACTGATGAGCTTGTGCTCTGAGCTTGTGCTC 297  
Db 962 AACTTAACTATACTCTTATATGCACTGATGAGCTTGTGCTCTGAGCTTGTGCTC 1020  
Qy 298 GAATACTTGTGACTCTGTGTCCTCTGATAGTGCTCTGAAACGT 357  
Db 1021 ATA--CTTCATACTCTGTGTCCTCTGATAGTGCTCTAAAC-TT 1076  
Qy 358 TAAATGTTAGAATAAAAGTTGATATATGATATATATAGAAAGAAACT 417  
Db 1077 TAAATGTTAGAATAAAAGTTGATATATGATATATAGAAAGAAACT 1136  
Qy 418 GAATACTTGTGTTGAAACTTGATATCTACATCATGATATGAAAGAAG-AG 1195  
Db 1137 GAAATCTTGTGTTTAAACTTGATATGATATGAAAGAAACT 537  
Qy 478 AATACAAATGTATCTCAGAAATTCTCAGATTTACGATTTAATCTCT 537  
Db 1196 AATACAAATGTATCTCAGAAATTCTCAGATTTACGATTTAATCTCT 1255  
Qy 538 TGATGAGAAATAATTCTGATGTTAACTAATTT-GGATCCACAGATGAAGCA 596  
Db 1256 TGATGAGAAATAATTCTGATGTTAACTAATTT-GGATCCACAGATGAAGCA 1315  
Qy 597 GAACTCTACTACATATTATGATATTTGATACATCATGATATGAAAGAAG 656  
Db 1316 GAATCTACTACATATTATGATATTTGATACATCATGATATGAAAGAAG 1375  
Qy 657 GACACAACTTAAATGTTGATAGTAACTGATATGAAAGAAATTTGCTCTTAAATTAAGTT 716





Db	4318	ACAGGTGAAAGTGTAGCTTAGCTTATAATGGCATCCGGTTAGAAGCTGGAAT	4377
Qy	1504	GACGAGTACTTCAGCCTTGGAAGGAGCTAAACATATAATGGCTGATATAAGG	1663
Db	4378	GACGAGTACTTCAGCCTTGGAAGGAGCTAAACATATAATGGCTGATATAAGG	4437
Qy	1664	TCAAGGAAAGAGGGCACTTAATAATTAAAGGAATGGAGGAGAACACT	1723
Db	4438	TCAAGGAAAGAGGGCACTTAATAATTAAAGGAATGGAGGAGAACACT	4497
Qy	1724	AATACCTTGCTTATAATGGCTCCCTTCAAAGTAACTGATATAAGG	1783
Db	4498	AATACCTTGCTTATAATGGCTCCCTTCAAAGTAACTGATATAAGG	4557
Qy	1784	ATATGCTCATTCGGATAAGGTTCCAGATGGACTCTAACATGGCGAA	1843
Db	4558	ATATGCTCATTCGGATAAGGTTCCAGATGGACTCTAACATGGCGAA	4616
Db	1844	GCTGGCGAACATAAAACCTCATGTTAACTGCTAGACTGCTCCAGGGTG	1903
Qy	4617	GCTGGCG-ACATAAACTCATGCTAGACTGCTCCAGGGTG	4675
Db	1904	GATTAGAGGGCTGCCSCTACGAAACGGGATTCCACCAAGTTGCCAG	1963
Qy	4676	GATTAGAGGGCTGCCSCTACGAAACGGGATTCCACCAAGTTGCCAG	4735
Db	1964	GCAGCTCTGTAAGTCAGCCTAACAGGCACTGTAAGGCTACTAGAAC	2023
Qy	4736	GCAGCTCTGTAAGTCAGCCTAACAGGCACTGTAAGGCTACTAGAAC	4795
Db	2024	TATGCAAATTCCATCCGTGATTACTAGCCAAAGCTATGGAGCTGCA	2083
Qy	4796	TATGCAAATTCCATCCGTGATTACTAGCCAAAGCTATGGAGCTGCA	4855
Db	2084	CACTGAAATTACAGTGTAGTGTAGTGTAGGAAAGTGTGTTAGATATA	2143
Qy	4856	CACTGAAATTACAGTGTAGTGTAGTGTAGGAAAGTGTGTTAGATATA	4915
Db	2144	CACTGAGTTGTCATTCAGTGTAGTGTAGTGTAGGAAAGTGTGTTAGA	2203
Qy	4916	CACTGAGTTGTCATTCAGTGTAGTGTAGGAAAGTGTGTTAGA	4975
Db	2204	GTCCCTATATTCCCGTCCCGGTCGCCAACGTTAAAGTCACGGCA	2263
Qy	4976	GTCCCTATATTCCCGTCCCGGTCGCCAACGTTAAAGTCACGGCA	5035
Db	2264	ATTCCCTAGGGGTAAGGCTGACTGTAGATAGATACGGGGTACGGTTG	2323
Qy	5036	ATTCCCTAGGGGTAAGGCTGACTGTAGATAGATACGGGGTACGGTTG	5095
Db	2324	TGTGCGCTGTGTTGTTGTTGAGCACGAGTCGCTGCGCCAGGGCG	2383
Qy	5096	TGTGCGCTGTGTTGTTGAGCACGAGTCGCTGCGCCAGGGCG	5155
Db	2384	AGTGCATGGGGAGAACGGAGGTGCTTAAACAGAACACTCGGTCT	2443
Qy	5156	AGTGCATGGGGAGAACGGAGGTGCTTAAACAGAACACTCGGTCT	5215
Qy	2444	CACTCATAGCATATGGGAGACTGACCCAGACTGTCTCACCTCCATT	2503
Db	5216	CACTCATAGCATATGGGAGACTGACCCAGACTGTCTCACCTCCATT	5275
Qy	2504	CCTATCTCTTCTCATCCCTTGCACTTGGAAGTGTGTTGATTC	2563
Db	5276	CCTATCTCTTCTCATCCCTTGCACTTGGAAGTGTGTTGATTC	5335
Qy	2564	TTGGCGATAATATGGGAGAGTAGTGGAAATCCCTCCCAAGTTCCA	2623
Db	5336	TTGGCGATAATATGGGAGAGTAGTGGAAATCCCTCCCAAGTTCCA	5395
Qy	2624	CAGTTGCTGGTGGGGAGGTTATGTGACAACCTTGTCTGACCGCA	2682
Db	5396	CAGTTGCTGGTGGGGAGGTTATGTGACAACCTTGTCTGACCGCA	5455
Qy	2683	TCTGGCTGCTAGTGTGACTCTGCTGCTGACAAAGGACTGATGAA	2742
Db	5456	TCTGGCTGCTAGTGTGACTCTGCTGCTGACAAAGGACTGATGAA	5535
Qy	2743	CGCTGAATGGGGAGGGGGCCGGGGCCGGGGGACTCTCGGGTG	2802
Db	5516	CGCTGAATGGGGAGGGGGCCGGGGCCGGGGGACTCTCGGGTG	5575
Qy	2803	GGGAGTATAGGAGGGAGGGTTAGTGGAGGGAGGAGGAGGAGG	2862
Db	5576	GGGAGTATAGGAGGGAGGGTTAGTGGAGGGAGGAGGAGGAGG	5635
Qy	2863	TCACAGGGATAATAAGGGAGGAGGAGGAGGAGGAGGAGGAGG	5695
Db	5636	TCACAGGGATAATAAGGGAGGAGGAGGAGGAGGAGGAGGAGG	5695
Qy	2923	TGGGAGAAGGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2922
Db	5696	TGGGAGAAGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	5755
Qy	2983	GAGGGAGGAGGAAATAGGGAGGAGGAGGAGGAGGAGGAGGAGG	3042
Db	5756	GAGGGAGGAAATAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	5815
Qy	3043	TCG 3045	
Db	5016	TCG 5818	

Qy	1904	GATTAAGAGAGCTAGCCGCCTAAGAACCGGATTCACCAAGTTCCCCAGAGTT	1963	Qy	2983	GAGGGAGGAGGAATAG3ZAGAG3AGGG3CACAGAGT3ACCGTGAGGATGGGCTC	3042
Db	300	GATTAGAGAGGCTAGCCGCCTAAGAACCGGATTCACCAAGTTCCCCAGAGTT	359	Db	1380	GAGGGAGGAGGAATAG3GAGAGGG3CACAGAGT3ACCGTGAGGATGGGCTC	1439
Qy	1964	GCAGGCTCTGTAGAGGAGGAAAGGCCATGTGAATGCCAAGGCTTCAAGGTT	2023	Qy	3043	TG 3045	
Db	360	GCAGGCTCTGTAGAGGAGGAAAGGCCATGTGAATGCCAAGGCTTCAAGGTT	419	Db	1440	TCG 1442	
Qy	2024	TATGAAATAATTTCATCCCTGAATTACTAGGCACAAGCTATGGGAGTGCAGT	2083				
Db	420	TATGAAATAATTTCATCCCTGAATTACTAGGCACAAGCTATGGGAGTGCAGT	479				
Qy	2084	CACTGAAATACCAAGTGTAGTAGTGTAGGAAAGTGTAGGAAAGTGTAGTGT	2143				
Db	480	CACTGAAATACCAAGTGTAGTGTAGGAAAGTGTAGGAAAGTGTAGTGT	539				
Qy	2144	CACTGAGTTGTCTCATTTGAGATCAGTGTACCTCTCTGCTTGCTTGAC	2203				
Db	540	CACTGAGTTGTCTCATTTGAGATCAGTGTACCTCTCTGCTTGCTTGAC	599				
Qy	2204	GTCTTATAATTGCTCTCCGGTCCCACAGTTAAAAAAAGTCAGGCAAT	2263				
Db	600	GTCTTATAATTGCTCTCCGGTCCCACAGTTAAAAAAAGTCAGGCAAT	659				
Qy	2264	ATTCCTCCCTGAGGGTAGGGCTTGGACTGTAGTACGGAGTACCGTTG	2323				
Db	660	ATTCCTCCCTGAGGGTAGGGCTTGGACTGTAGTACGGAGTACCGTTG	719				
Qy	2324	TGTTGTTGCTGTGTTGGTTGGAGACGGAGTCTGCTGCGCAGGCTG	2383				
Db	720	TGTTGTTGCTGTGTTGGTTGGAGACGGAGTCTGCTGCGCAGGCTG	779				
Qy	2384	AGTGCATATGGCGGAGACCGAGGTAGCTTTAAAGAACGAAACACTG	2443				
Db	780	AGTGCATATGGCGGAGACCGAGGTAGCTTTAAAGAACGAAACACTG	839				
Qy	2444	CCATCAATTGAAATATGGAGACTGACCCAGACTTCTCTCCATCTAGGTC	2503				
Db	840	CCATCAATTGAAATATGGAGACTGACCCAGACTTCTCTCCATCTAGGTC	899				
Qy	2504	CTTAGCTTCTTCTCACTCTTATGCCACTGGATGGTACGAGTTAGAT	2563				
Db	900	CTTAGCTTCTTCTCACTCTTATGCCACTGGATGGTACGAGTTAGAT	959				
Qy	2564	TGGCAGATAATTGAGGCAAGGAGTAGTGGATTCCTCCCAAGTTCCAACC	2623				
Db	960	TGGCAGATAATTGAGGCAAGGAGTAGTGGATTCCTCCCAAGTTCCAACC	1019				
Qy	2624	CAGTTTGTGGTGGAGGGAGGTATTGTTACAACTTGTACCGCA-GGA	2682				
Db	1020	CAGTTTGTGGTGGAGGGAGGTATTGTTACACCTTGTACCGCA-GGA	1079				
Qy	2683	TCTGGTGTGTAGGAGTTGAGTCTGAGTACGAAAGAGACTCGAATGCAAGA	2742				
Db	1080	TCTGGTGTGTAGGAGTTGAGTCTGAGTACGAAAGAGACTCGAATGCAAGA	1139				
Qy	2743	CGCTGAGCTAATTAAGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGG	2802				
Db	1140	CGCTGAGCTAATTAAGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGG	1199				
Qy	2803	GGAAACTTAAAGAGGGAGGTAGCTGGAGGAGGAGCTGGCTTCAGGAC	2862				
Db	1200	GGAAACTTAAAGAGGGAGGTAGCTGGAGGAGGAGCTGGCTTCAGGAC	1259				
Qy	2863	TCACAGAGGATAATTAAGGAGTGGAGGAGGAGGAGGAGGAGGAGG	2922				
Db	1260	TCACAGAGGATAATTAAGGAGTGGAGGAGGAGGAGGAGGAGGAGG	1319				
Qy	2923	TGGGAGAAGGGGAGAAGGGAGAAGGGAGAAGGGAGAAGGGAGA	2982				
Db	1320	TGGGAGAAGGGGAGAAGGGAGAAGGGAGAAGGGAGAAGGGAGA	1379				

RESULT 7  
US-10-049-407-1  
; Sequence 1, Application US/10049407  
; GENERAL INFORMATION:  
; APPLICANT: Denton, R. Rex  
; APPLICANT: Kilem, Steffanie  
; APPLICANT: Nandabalan, Krishnan  
; APPLICANT: Stephens, J. Claiborne  
; TITLE OF INVENTION: DRUG TARGET ISOGENES: POLYMORPHISMS IN THE  
; FILE REFERENCE: MWH-0006US HIRIA  
; CURRENT APPLICATION NUMBER: US/10/049 407  
; PRIORITY NUMBER: PCT/US00/40519  
; PRIORITY FILING DATE: 2000-08-06  
; PRIORITY APPLICATION NUMBER: PCT/US00/40519  
; PRIORITY FILING DATE: 1999-08-06  
; NUMBER OF SEQ ID NOS: 53  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 1  
; LENGTH: 1204  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-10-049-407-1

Query Match 24.6%; Score 747.8; DB 43; Length 1204;  
Best Local Similarity 98.9%; Pred. No. 7\_9e-120; Indels 0; Gaps 0;  
Matches 774; Conservative 0; Mismatches 7; Index 2; Gaps 2;

QY 2254 ATTCTCCCTGAGGGAGTAGGTGGATGATAACCGGAGTACCCATTGTTGTT 2323  
Db 1 ATTCTCCCTGAGGGAGTAGGTGGATGATAACCGGAGTACCCATTGTTGTT 60

QY 2324 TGTGTCCTCGTGTGGTGTGTTGGAGGGAGGAGCTCGCCAGGTCTGG 2383  
Db 61 TGTGTCCTCGTGTGGTGTGTTGGAGGGAGGAGCTCGCCAGGTCTGG 120

QY 2384 AGTGCATCTGGCGGAGACGGGTTAATGGAGAACACTGGCTCTT 2443  
Db 121 AGTGCATCTGGCGGAGACGGGTTAATGGAGAACACTGGCTCTT 180

QY 2444 CCATCAATTAGCATTAATGGAGACTGACCCAGGACTGTACCTCCATCAGGCTC 2503  
Db 181 CCATCAATTAGCATTAATGGAGACTGACCCAGGACTGTACCTCCATCAGGCTC 240

QY 2504 CTCATGCTCTTCTCATCTCTATGCCACTCTGGAGCTTGACAGGTTAAAT 2563  
Db 241 CTCTATGCTCTTCTCATCTCTATGCCACTCTGGAGCTTGACAGGTTAAAT 300

QY 2564 TTGGCAGATTAATGGAGGAGGAGTGTGCTTCCCAAGTTTCCACCC 2623  
Db 301 TTGGCAGATTAATGGAGGAGGAGTGTGCTTCCCAAGTTTCCACCC 360

QY 2624 CAGTTGCTGAGTTGGGGAGTTATGTTACAAACCTGCTGACCGGA-GGA 2682  
Db 361 CAGTTGCTGAGTTGGGGAGTTATGTTACAAACCTGCTGACCGGA-GGA 420

QY 2683 TCGATGTTGAGTGTGAGCTTGAGCTTGAGCTTGAGCTTGAGCTTGAG 2742  
Db 421 CCTGTTGTTGTTGAGCTTGAGCTTGAGCTTGAGCTTGAGCTTGAG 480

QY 2743 CGCTGAGCTAGGGAGGGAGGGGGACCCAGAGGAAGGGAGCTCTGGAT 2802  
Db 481 CGCTGAGCTAGGGAGGGAGGGGGACCCAGAGGAAGGGAGCTCTGGAT 540

QY 2983 GAGGGAGAAGGAATAGGGAGGGGTACAGAGTGTGACCGTGGAGGAT 3042  
Db 720 GAGGGAGAAGGAATAGGGAGGGGTACAGAGTGTGACCGTGGAGGAT 779

QY 3043 TCG 3045  
Db 780 TCG 782

RESULT 8  
PCT-US00-40519-3  
; Sequence 3, Application PCT/TUS00/40519  
; GENERAL INFORMATION:  
; APPLICANT: Dentin, R. Rex  
; APPLICANT: Nandabalan, Krishnan  
; APPLICANT: Kilem, Steffanie  
; APPLICANT: Stephens, J. Claiborne  
; TITLE OF INVENTION: DRUG TARGET ISOGENES: POLYMORPHISMS IN THE  
; FILE REFERENCE: MWH-0006PCT HIRIA  
; CURRENT APPLICATION NUMBER: PCT/TUS00/40519  
; PRIORITY NUMBER: 60/147,711  
; PRIORITY FILING DATE: 1999-08-06  
; NUMBER OF SEQ ID NOS: 53  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 3  
; LENGTH: 2722  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; PCT-US00-40519-3

Query Match 24.6%; Score 747.8; DB 1; Length 2722;  
Best Local Similarity 98.9%; Pred. No. 9\_7e-120; Indels 0; Gaps 0;  
Matches 774; Conservative 0; Mismatches 7; Index 2; Gaps 2;

QY 2264 ATTCTCCCTGAGGGAGTAGGTGGATGATAACCGGAGTACCCATTGTTGTT 2323  
Db 1 ATTCTCCCTGAGGGAGTAGGTGGATGATAACCGGAGTACCCATTGTTGTT 60

QY 2324 TGTGTCCTCGTGTGGTGTGTTGGAGGGAGGAGCTCGCCAGGTCTGG 2383  
Db 61 TGTGTCCTCGTGTGGTGTGTTGGAGGGAGGAGCTCGCCAGGTCTGG 120

QY 2384 AGTGCATCTGGCGGAGACGGGTTAATGGAGAACACTGGCTCTT 2443  
Db 121 AGTGCATCTGGCGGAGACGGGTTAATGGAGAACACTGGCTCTT 180

QY 2444 CCATCAATTAGCATTAATGGAGACTGACCCAGGACTGTACCTCCATCAGGCTC 2503  
Db 181 CCATCAATTAGCATTAATGGAGACTGACCCAGGACTGTACCTCCATCAGGCTC 240

QY 2504 CTCATGCTCTTCTCATCTCTATGCCACTCTGGAGCTTGACAGGTTAAAT 2563  
Db 241 CTCTATGCTCTTCTCATCTCTATGCCACTCTGGAGCTTGACAGGTTAAAT 300

QY 2564 TTGGCAGATTAATGGAGGAGGAGTGTGCTTCCCAAGTTTCCACCC 2623  
Db 301 TTGGCAGATTAATGGAGGAGGAGTGTGCTTCCCAAGTTTCCACCC 360

QY 2444 CCATCAATTAGCATTAATGGAGACTGACCCAGGACTGTACCTCCATCAGGCTC 2503

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Db 181 CCACTGATTAGCATAATGGGAGACTGACCCAGACTGTCACTTCATTAGCTC 240
Qy 2504 CCTATGCTCCTTCTCATCTCTTATGCCAATCTGGATGCTGACAGATTAGAT 2563
Db 241 CCTATGCTCCTTCTCATCTCTTATGCCAATCTGGATGCTGACAGATTAGAT 300
Qy 2564 TTGGAGATAATGAGGAGGAGTAGTGGAATCCCTCCCAAGTTTCCAACC 2623
Db 301 TTGGAGATAATGACCCAGGAGTAGTGGAATCCCTCCCAAGTTTCCAACC 360
Qy 2624 CAGTTTGGGGTTGGAGGGAGTTTACACCTTGCTGACCGCCAGGA 2682
361 CAGTTTGGGGTTGGAGGGAGTTTACACCTTGCTGACCGCCAGGA 420
Db 2683 TCTGCTGTTGAGTGTAGTGCTAGTCAGTCTGTGACAAMAAAGAGACTCGAATGCAAGA 2742
Qy 421 CCTGGTTGTTGAGTGTAGTGCTAGTCAGTCTGTGACAAMAAAGAGACTCGAATGCAAGA 480
Qy 2743 CGCTGAGCTGAGGAGGAGGGGACCCAGAGGAGGGACTCTCGGGGTG 2802
Db 481 CGCTGAGCTGAGGAGGAGGGGACCCAGAGGAGGGACTCTCGGGGTG 540
Qy 2803 GGAGATATAGGGGGAGTTAGGGGGAGGAGCTGGGGAGGAGGAGCTGGTTCAGGCAC 2862
541 GGAGATATAGGGGGAGTTAGGGGGAGGAGCTGGGGAGGAGGAGCTGGTTCAGGCAC 599
Db 2863 TCACAGAGGATAATAAGGGAGTGGAGGAGGAGGAGGAGGAGCTTAAGGGAGG 2922
Qy 600 TCACAGAGGATAATAAGGGAGTGGAGGAGGAGGAGGAGGAGCTTAAGGGAGG 659
Db 2923 TGGGAGAGGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGA 2982
660 TGGGAGAGGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGA 719
Db 2983 GAGGAGGAGGAAATAGGGAGGGTCAGAGTGACCTGGGGCTTC 3042
720 GAGGAGGAGGAAATAGGGAGGGTCAGAGTGACCTGGGGCTTC 779
Qy 3043 TCG 3045
Db 780 TCG 782

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RESULT 9
US-10-049-407-3
; Sequence 3, Application US/10049407
; GENERAL INFORMATION:
; APPLICANT: Denison, R. Rex
; APPLICANT: Kilem, Stefanie
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Stephens, J. Claiborne
; TITLE OF INVENTION: DRUG TARGET ISOCENES: POLYMORPHISMS IN THE
; TITLE OF INVENTION: 5-HIDROXYTRIPTYPTAMINE RECEPTOR 1A GENE
; FILE REFERENCE: MWH-006US HTRIA
; CURRENT APPLICATION NUMBER: US/10/049, 407
; CURRENT FILING DATE: 2002-02-06
; PRIOR APPLICATION NUMBER: PCT/US00/40519
; PRIOR FILING DATE: 1999-08-06
; NUMBER OF SEQ ID NO: 53
; SOFTWARE: PatentIn Ver. 2.1
; LENGTH: 2722
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-049-407-3

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Query Match Score 747.8; DB 43; Length 2722;
Best Local Similarity 98.9%; Pred. No. 9.7e-120;
Matches 774; Conservative 0; Mismatches 7; Indels 2; Gaps 2;

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Qy 2264 ATTCCTCTGAGGGAGTAAGCTGAGCTGATGATGATAMGGGGTACGGTTGTTG 2323
Db 1 ATTCTCTGAGGGAGTAAGCTGAGCTGATGATGATAMGGGGTACGGTTGTTG 60
Qy 2324 TGTGTCGTCGTTGTTGTTGTTGAGACGATTTAAG 2383
Db 61 TGTGTCGTCGTTGTTGTTGAGACGATTTAAG 120
Qy 2384 AGTCATGGGGAGAACAGGAGTGTCTTTAAACCAAAGACACTGGTTCT 2443
Db 121 AGTCATGGGGAGAACAGGAGTGTCTTTAAACCAAAGACACTGGTTCT 180
Qy 2444 CCATCAATTGCAATTGGAGACTGACCCAGACTGTCACCTCCATTAGGTC 2503
Db 181 CCATCAATTGCAATTGGAGACTGACCCAGACTGTCACCTCCATTAGGTC 240
Qy 2504 CCTATGCTTCTCATCTCTTATGCCAATCTGGATGCTGACAGATTAGAT 2563
Db 241 CCTATGCTTCTCATCTCTTATGCCAATCTGGATGCTGACAGATTAGAT 300
Qy 2564 TTGGAGATAATGAGGAGGAGTAGTGGAATCCCTCCCAAGTTTCCAACC 2623
Db 301 TTGGAGATAATGACCCAGGAGTAGTGGAATCCCTCCCAAGTTTCCAACC 360
Qy 301 TTGGAGATAATGACCCAGGAGTAGTGGAATCCCTCCCAAGTTTCCAACC 360
Db 361 CAGTTTGGGGTTGGAGGGAGTTTACACCTTGCTGACCGCCAGGA 420
Db 421 CCTGGTTGTTGAGTGTAGTGCTAGTCAGTCTGTGACAAMAAAGAGACTCGAATGCAAGA 480
Qy 2743 CGCTGAGCTGAGGAGGAGGGGACCCAGAGGAGGGACTCTCGGGGTG 2802
Db 481 CGCTGAGCTGAGGAGGAGGGGACCCAGAGGAGGGACTCTCGGGGTG 540
Qy 2803 GGAGATATAGGGGGAGTTAGGGGGAGGAGCTGGGGAGGAGGAGCTGGTTCAGGCAC 2862
541 GGAGATATAGGGGGAGTTAGGGGGAGGAGCTGGGGAGGAGGAGCTGGTTCAGGCAC 599
Db 2863 TCACAGAGGATAATAAGGGAGTGGAGGAGGAGGAGGAGGAGCTTAAGGGAGG 2922
Qy 600 TCACAGAGGATAATAAGGGAGTGGAGGAGGAGGAGGAGGAGCTTAAGGGAGG 659
Db 2923 TGGGAGAGGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGA 2982
660 TGGGAGAGGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGA 719
Db 2983 GAGGAGGAGGAAATAGGGAGGGTCAGAGTGACCTGGGGCTTC 3042
720 GAGGAGGAGGAAATAGGGAGGGTCAGAGTGACCTGGGGCTTC 779
Qy 3043 TCG 3045
Db 780 TCG 782

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RESULT 10
US-09-541-946-2477
; Sequence 2477, Application US/03541946
; GENERAL INFORMATION:
; APPLICANT: Lander, Eric S.
; APPLICANT: Cargill, Michele
; APPLICANT: Altshuler, David M.
; APPLICANT: Ireland, James S.
; APPLICANT: Sklar, Pamela
; APPLICANT: Patil, Nila
; APPLICANT: Lipsitz, Robert J.
; APPLICANT: Daley, George Q.
; TITLE OF INVENTION: CHARACTERIZATION OF SINGLE NUCLEOTIDE
; TITLE OF INVENTION: POLYMORPHISMS IN CODING REGIONS OF HUMAN GENES
; FILE REFERENCE: 2825.1017-003
; CURRENT APPLICATION NUMBER: US/09/541, 946

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PRIOR APPLICATION NUMBER: US 60/127,248  
PRIOR FILING DATE: 1995-03-31  
NUMBER OF SEQ ID NOS: 2889  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 2477  
LENGTH: 839  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-541-946-2477

APPLICANT: Cargill, Michele  
APPLICANT: Altshuler, David M.  
APPLICANT: Ireland, James S.  
APPLICANT: Skiar, Pamela  
APPLICANT: Patil, Nila  
APPLICANT: Lipsitz, Robert J.  
APPLICANT: Daley, George Q.  
TITLE OF INVENTION: CHARACTERIZATION OF SINGLE NUCLEOTIDE POLYMORPHISMS IN CODING REGIONS OF HUMAN GENES  
FIR PREFERENCE: 2005 107-03



RESULT 14  
US-09-634-306B-196187/c  
Sequence 196187, Application US/09634306B  
GENERAL INFORMATION:  
APPLICANT: Wang, David G.  
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
FILE REFERENCE: 108827.129  
CURRENT APPLICATION NUMBER: US 09/634,306B  
CURRENT FILING DATE: 2002-02-21  
PRIOR APPLICATION NUMBER: US 60/218,006  
PRIOR FILING DATE: 2000-07-12  
PRIOR APPLICATION NUMBER: US 60/198,676  
PRIOR FILING DATE: 2000-04-20  
PRIOR APPLICATION NUMBER: US 60/193,483  
PRIOR FILING DATE: 2000-03-29  
PRIOR APPLICATION NUMBER: US 60/185,218  
PRIOR FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: US 60/167,363  
PRIOR FILING DATE: 1999-11-23  
PRIOR APPLICATION NUMBER: US 60/156,358  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: US 60/146,002  
PRIOR FILING DATE: 1999-08-09  
NUMBER OF SEQ ID NOS: 325720  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO: 196187  
LENGTH: 559  
TYPE: DNA  
ORGANISM: Human  
US-09-634-306B-196187

Query Match 14.1%; Score 428.2; DB 26; length 559;  
Best Local Similarity 92.2%; Pred. No. 2.7e-64; Mismatches 30; Indels 12; Gaps 6;  
Matches 517; Conservative

QY 898 AAGACTTCTTCAGAGCTGTAACAGCATACATGATATCATCTCTTGAT 957  
Db 261 AAAGACTTCTTCAGAGCTGTAACAGCATACATGATATCATCTCTTGAT 202  
QY 958 CCC---ATGTCATCACAGCATGCTGATGGTGGCATGGTGGATGG 1:012  
Db 201 TGCCATGATCACTACAATGCGAGCTATGGTGGCATGTGAATGAGTGG 1:142  
QY 1013 GACTGTGCC---AGTGAACTAAATGAAACAAACCTTACCAACACA 1068  
Db 141 GAACTGTGCCAGACTGAACTATAAATGAAACAAACCTTACCAACACA 82  
QY 1069 CTGTCCTGATGTTAATGCTTGGCCAACTGGATTCTTTGATGCTTGGATGCT 1128  
Db 81 CTGTCCTGATGTTAATGCTTGGCCAACTGGATTCTTTGATGCTTGGATGCT 22  
QY 1129 CTTTGTGTTGGCTTGAGAA 1149  
Db 21 CTTTGTGTTGGCTTGAGAA 1

RESULT 15  
US-10-027-632-196186/c  
Sequence 196186, Application US/10027632  
GENERAL INFORMATION:  
APPLICANT: Wang, David G.  
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
FILE REFERENCE: 108827.129  
CURRENT APPLICATION NUMBER: US/10/027,632  
CURRENT FILING DATE: 2002-04-30  
PRIOR APPLICATION NUMBER: US 60/218,006  
PRIOR FILING DATE: 2000-07-12  
PRIOR APPLICATION NUMBER: US 60/198,676  
PRIOR FILING DATE: 2000-04-20  
PRIOR APPLICATION NUMBER: US 60/193,483  
PRIOR FILING DATE: 2000-03-29  
PRIOR APPLICATION NUMBER: US 60/185,218  
PRIOR FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: US 60/167,363  
PRIOR FILING DATE: 1999-11-23  
PRIOR APPLICATION NUMBER: US 60/156,358  
PRIOR FILING DATE: 1999-09-28  
PRIOR APPLICATION NUMBER: US 60/146,002  
PRIOR FILING DATE: 1999-08-09  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO: 196186  
LENGTH: 559  
TYPE: DNA  
ORGANISM: Human  
US-10-027-632-196186

Query Match 14.1%; Score 428.2; DB 43; length 559;  
Best Local Similarity 92.2%; Pred. No. 2.7e-64; Mismatches 30; Indels 12; Gaps 6;  
Matches 517; Conservative

QY 839 ATAGTCTGTTATGAGAGACTTGTAGAGTGTGAAAGATACCTTACAATCTT-A 897  
Db 321 ACAGTCTGTTATGAGAGACTTGTAGAGTGTGAAAGATACCTTACAATCTTAA 262  
QY 898 AAGACTTCTTCAGAGCTGTAACAGCATACATGATATCATCTCTTGAT 957  
Db 261 AAAGACTTCTTCAGAGCTGTAACAGCATACATGATATCATCTCTTGAT 202  
QY 958 GCC---ATGTCATCACAGCATGCTGATGGTGGCATGGTGGATGG 1:012  
Db 201 TGCCATGATCACTACAATGCGAGCTATGGTGGCATGTGAATGAGTGG 1:142  
QY 958 GCG---ATGTCATCACAGCATGCTGATGGTGGCATGGTGGATGG 1012  
Db 141 GAACTGTGCCAGACTGAACTATAAATGAAACAAACCTTACCAACACA 82  
QY 1013 GACTGTGCC---AGTGAACTAAATGAAACAAACCTTACCAACACA 1068  
Db 141 GAACTGTGCCAGACTGAACTATAAATGAAACAAACCTTACCAACACA 82  
QY 1069 CTGTCCTGATGTTAATGCTTGGCCAACTGGATTCTTTGATGCTTGGATGCT 1128  
Db 81 CTGTCCTGATGTTAATGCTTGGCCAACTGGATTCTTTGATGCTTGGATGCT 22  
QY 1129 CTTTGTGTTGGCTTGAGAA 1149  
Db 21 CTTTGTGTTGGCTTGAGAA 1

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Qy    779 CCTTTAATAATTTCATTAATTTTGACCTTAACCTTATTAACTGTAAT 838
Db    379 -CTTTAAATTTCATTAATTTTGACCTTAACCTTATTAACTGTAAT 322
Qy    839 ATAGTCTGATTTGGAGAGACTTAGAGTGAATAGTGAATCTCAAACTT-A 897
Db    321 ACAGTCTGATTTGGAGAGACTTAGAGTGAATAGTGAATCTCAAACTT-A 897
Qy    898 AAAGACTCTCAGCTCTGAAACGCAATTACATGATACTAACCTCTTCTTGAT 957
Db    261 AAAGACTCTCAGCTCTGAAACGCAATTACATGATACTAACCTCTTCTTGAT 261
Qy    958 GCC---ATGATCATCACAACTGCATGCTCATGGTGCATGCTG-AATGATGAGTG 0.012
Db    201 TGCATGATCATCACAACTGCAGGTCTATTGGCATGCTGAATGATGAGTG 142
Qy    1013 GACTGRCGCCC---AGTGAACTATAAAAAAAACAAACAAACCTATCACAACCA 1068
Db    141 GACTGTCGCCAGCAGCACTATAAAAACACACACACACCTATCACAACCA 82
Qy    1069 CTGTCCTGATTTGATGATGCTGGCCAATGANTCTTTGATGCTTGGGATTTG 1128
Db    81 CTGTCCTGATTTGATGATGCTGGCCAATGCTTGGGATTTG 22
Qy    1129 CTTTGTGTTGGCTTGAGAA 1149
Db    21 CTTTGTGTTGGCTTGAGAA 1

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Search completed: April 10, 2004, 17:18:56  
 Job time : 8790 secs

			Copyright (c) 1993 - 2004 Compugen Ltd.	GenCore version 5.1.6
OM nucleic - nucleic search, using sw model				
Run on:	April 10, 2004, 08:29:12 ;	Search time 6908 Seconds	(without alignments)	
			13163.09 Million cell updates/sec	
Title:	US-09-430-412a-1			
Perfect score:	3045			
Sequence:	1 atccatcaaataatccgtta.....gtggaggatggggatctcg 3045			
Scoring table:	IDENTITY_NUC			
	Gapext 1.0			
Searched:	27513289 seqs, 14931090276 residues			
Total number of hits satisfying chosen parameters:	55026578			
Minimum DB seq length:	0			
Maximum DB seq length:	200000000			
Post-processing:	Minimum Match 0%			
	Maximum Match 100%			
Listing first 45 summaries				
Database :				
EST:*				
1: em_estba:*				
2: em_estbum:*				
3: em_estin:*				
4: em_estmu:*				
5: em_estov:*				
6: em_estpl:*				
7: em_estro:*				
8: em_htc:*				
9: gb_est1:*				
10: gb_est2:*				
11: gb_htc:*				
12: gb_est3:*				
13: gb_est4:*				
14: gb_est5:*				
15: em_estfun:*				
16: em_estom:*				
17: em_gbs_hum:*				
18: em_gbs_inv:*				
19: em_gss_chn:*				
20: em_gss_vrt:*				
21: em_gss_fun:*				
22: em_gss_mam:*				
23: em_gss_mus:*				
24: em_gss_pro:*				
25: em_gss_rod:*				
26: em_gss_phg:*				
27: em_gss_vrl:*				
28: gb_gss1:*				
29: gb_gss2:*				
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.				
SUMMARIES				
Result No.	Score	Query Length	DB ID	Description
1	594	19.5	635	AG174550 Pan troglodytes DNA, clone: RP43-044N13.TJ, genomic survey sequence.
2	420	13.8	515	AG174550 Pan troglodytes DNA, clone: RP43-044N13.TJ, genomic survey sequence.
3	111.2	3.7	1101	AG174550 Pan troglodytes DNA, clone: RP43-044N13.TJ, genomic survey sequence.
4	108.6	3.6	475	AG174550 Pan troglodytes DNA, clone: RP43-044N13.TJ, genomic survey sequence.
ALIGNMENTS				
RESULT 1				
AG174550/c				
LOCUS	AG174550	635 bp	DNA	linear GSS 09-JAN-2002
DEFINITION	Pan troglodytes DNA, clone: RP43-044N13.TJ, genomic survey sequence.			
ACCESSION	AG174550			
VERSION	AG174550.1			
KEYWORDS	GT:16704230			
SOURCE	GSS.			
ORGANISM	Pan troglodytes (chimpanzee)			
REFERENCE	Pan troglodytes			
AUTHORS	Bukay-Yosef, M., Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.			
JOURNAL	M. Tokito, Y., Watanabe, H., and Sakaki, Y.			
REFERENCE	Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T.,			
AUTHORS	T. Toyoda, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T.,			
JOURNAL	Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T.,			
COMMENT	Submitted (02-AUG-2001) Asao Fujiyama, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC); Japan (E-mail:chimpmles@gsc.riken.go.jp, URLhttp://hgp.gsc.riken.go.jp/, Tel:81-43-503-9111, Fax:81-45-503-9170)			
Clones are derived from the chimpanzee BAC library RCI-43 This BAC				



Db	332	GRAAATGCAACTATCTTCTCCACAAAGGTAATTATGTCAGTTCCAGATRC	391
QY	1520	AGGTATGACGACAAACCAACAGGGAAGTGTAGCTTAAATGG	1579
Db	392	ACGTTATGACGACAAACCAACAGGGAAGTGTAGCTTAAATGG	451
QY	1580	CATCCAGTAACTGTGATGAGCAGATACTCGGTTCGAGGAGCTAA	1636
Db	452	CATCCAGTAACTGTGATGAGCAGATACTCGGTTCGAGGAGCTAA	508
<b>RESULT 3</b>			
LOCUS	CNS00EVLT	CNS00EVLT	
DEFINITION	droso	droso	
ACCESSION			
VERSION			
SOURCE			
ORGANISM	Drosophila melanogaster (fruit fly)	Drosophila melanogaster (fruit fly)	
KEYWORDS	Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydriidae; Drosophilidae; Drosophila; Genoscope.	Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydriidae; Drosophilidae; Drosophila; Genoscope.	
AUTHORS			
TITLE			
JOURNAL			
COMMENT	Submitted (02-JUN-1999) Genoscope - Centre National de Sequencage : BP 191 99006 FRVY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr - Web : www.genoscope.cns.fr) Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see <a href="http://www.fruitfly.org">http://www.fruitfly.org</a> . The BDGP Drosophila melanogaster BAC library was prepared by Kazutomo Osoegawa and Aaron Mammober in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPII-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain Y2; Cn bw SP, the same strain used for the BDGP's P1 and P31 libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at <a href="http://bacpac.med.buffalo.edu/drosophila.bac.hm">http://bacpac.med.buffalo.edu/drosophila.bac.hm</a> .	Submitted (02-JUN-1999) Genoscope - Centre National de Sequencage : BP 191 99006 FRVY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr - Web : www.genoscope.cns.fr) Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see <a href="http://www.fruitfly.org">http://www.fruitfly.org</a> . The BDGP Drosophila melanogaster BAC library was prepared by Kazutomo Osoegawa and Aaron Mammober in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPII-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain Y2; Cn bw SP, the same strain used for the BDGP's P1 and P31 libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at <a href="http://bacpac.med.buffalo.edu/drosophila.bac.hm">http://bacpac.med.buffalo.edu/drosophila.bac.hm</a> .	
FEATURES			
source	1. 1101 /organism="Drosophila melanogaster" /mol_type="genomic DNA" /db_xref="taxon:7227" /clone="BACR09823" /clone_id="RPII-98" /note="end : T"	1. 1101 /organism="Drosophila melanogaster" /mol_type="genomic DNA" /db_xref="taxon:7227" /clone="BACR09823" /clone_id="RPII-98" /note="end : T"	
<b>ORIGIN</b>			
Query Match	3.7%	Score 111.2; DB 29; Length 1101;	
Best Local Similarity	35.7%	Pred. No. 3.3e-09; Matches 232; Conservative 127; Mismatches 285; Indels 5; Gaps 2;	
Matches			
126	TCTGTATCTTAAAGTTAACATGGAGATTGCTAAGTGAATGAAATGAAACGCA	185	
Db	454	YCTCAHTWMMMMWWAWTWMMWAWAWWTWAWAATWAWAATWAWWWWWATTTW	513
QY	186	ATATCACTCTGCTATATCATTTATATCACGTATTATGTTAAAGTATAA	245
Db	514	WWWTTWATTTWAWWWATWAWAATTTAATTTAATTTAATTTAATTTAATTT	573
QY	246	CATAAAATCTCATCTGATGCGACCTTACCTCGTGCGCGATCTT	305
Db	574	TAWAAWATATAATTAATTTAATTTAATTTAATTTAATTTAATTTAATTT	633
<b>RESULT 4</b>			
LOCUS	AQ030345	AQ030345	
DEFINITION	HS_J176_B2_H11_T7_CIT	Approved Human Genomic Sperm Library D Homo sapiens genomic clone Plate=3176 Col=22 Row=P, genomic survey sequence.	
ACCESSION	AQ030345	AQ030345	
VERSION	AQ030345.1	GI 4020182	
SOURCE			
ORGANISM	Homo sapiens (human)	Homo sapiens (human)	
KEYWORDS			
REFERENCE			
AUTHORS	Mahairas,G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T., Adams,M.D. and Hood,L., Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S.	Mahairas,G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T., Adams,M.D. and Hood,L., Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S.	
TITLE	Sequencing-tagged connectors: A sequence approach to mapping and scanning the human genome	Sequencing-tagged connectors: A sequence approach to mapping and scanning the human genome	
JOURNAL	proc. Natl. Acad. Sci. U.S.A. 96 (11), 9739-9744 (1999)	proc. Natl. Acad. Sci. U.S.A. 96 (11), 9739-9744 (1999)	
MEDLINE	9938589	9938589	
PUBLISHED	1044764	1044764	
COMMENT	Contact: Mahairas G.G., Wallace J.C., Hood L. High Throughput Sequencing Center University of Washington 401 Queen Anne Avenue North, Seattle, WA 98109, USA Tel: (206) 616-3618 Fax: (206) 616-3887 Email: jwallace@u.washington.edu	Contact: Mahairas G.G., Wallace J.C., Hood L. High Throughput Sequencing Center University of Washington 401 Queen Anne Avenue North, Seattle, WA 98109, USA Tel: (206) 616-3618 Fax: (206) 616-3887 Email: jwallace@u.washington.edu	
FEATURES			
source	1. .475 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /clone="Plate:3176 Col=22 Row=P"	1. .475 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /clone="Plate:3176 Col=22 Row=P"	

ORIGIN /clone lib="CIT Approved Human Genomic Sperm Library D", /note=Organ: sperm; Vector: pSelBAC11; BAC Clones in E-Coli DH10B"

RESULT 5

ORIGIN	Query Match 3.5%; Score 107.2; DB 29; Length 1101;
LOCUS	Best Local Similarity 36.3%; Pred. No. 1.6e-08; Mismatches 261; Indels 4; Gaps 1;
DEFINITION	Matches 213; Conservative 108; Mismatches 261; Indels 4; Gaps 1;
ACCESSION	Query Match 3.6%; Score 108.6; DB 28; Length 475;
VERSION	Best Local Similarity 70.7%; Pred. No. 1.2e-08; Mismatches 68; Indels 9; Gaps 3;
KEYWORDS	Matches 186; Conservative 0; Mismatches 68; Indels 9; Gaps 3;
SOURCE	Db- Query Match 3.6%; Score 108.6; DB 28; Length 475;
REFERENCE	Db- Query Match 3.6%; Score 108.6; DB 28; Length 475;
AUTHORS	Db- Query Match 3.6%; Score 108.6; DB 28; Length 475;
JOURNAL	Db- Query Match 3.6%; Score 108.6; DB 28; Length 475;

CNS00EV1/C CN500EV1 1101 bp DNA linear GSS 04-JUN-1999

DEFINITION Drosophila melanogaster genome survey sequence T7 end of BAC: BACR29B23 of RPCI-98 library from Drosophila melanogaster (fruit fly), genomic sequence.

ACCESSION AL069705

VERSION AL069705.1 GI:4949849

KEYWORDS GSS.

SOURCE Drosophila melanogaster (fruit fly)

ORGANISM Drosophila melanogaster

REFERENCE Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Drosophilidae; Drosophila.

1. (bases 1 to 1101)

AUTHORS Direct Submission

TITLE Submitted (22-JUN-1999) Genoscope - Centre National de Sequençage :

JOURNAL BP 191 9106 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr)

COMMENT Web : [www.genoscope.cns.fr](http://www.genoscope.cns.fr). Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see <http://www.fruitfly.org>. The BDGP Drosophila melanogaster BAC library was prepared by Kazuyoshi Osoegawa and Aaron Mammone in Pierre de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPCI-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain Y2, on bw sp, the same strain used for the BDGP's P1 and EST libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at [http://bacpac.med.buffalo.edu/drosophila\\_bac.htm](http://bacpac.med.buffalo.edu/drosophila_bac.htm).

FEATURES Location:Qualifiers

source 1. 1-1101

/organism="Drosophila melanogaster"

/mot\_type="genomic DNA"

/db\_xref="taxon:7227"

/clones="BACR29B23"

/clone.lib="RPCI-98"

/note="end : T7"

RESULT 6

ORIGIN	Query Match 3.5%; Score 107.2; DB 29; Length 1101;
LOCUS	Best Local Similarity 36.3%; Pred. No. 1.6e-08; Mismatches 261; Indels 4; Gaps 1;
DEFINITION	Matches 213; Conservative 108; Mismatches 261; Indels 4; Gaps 1;
ACCESSION	Query Match 3.5%; Score 107.2; DB 29; Length 1101;
VERSION	Best Local Similarity 36.3%; Pred. No. 1.6e-08; Mismatches 261; Indels 4; Gaps 1;
KEYWORDS	Db- Query Match 3.5%; Score 107.2; DB 29; Length 1101;
SOURCE	Db- Query Match 3.5%; Score 107.2; DB 29; Length 1101;
ORGANISM	Db- Query Match 3.5%; Score 107.2; DB 29; Length 1101;

AL565455/C AL565455 Homo sapiens FETAL BRAIN mRNA linear EST 12-MAY-2003

DEFINITION CSOP05K018 3'-PRIME, mRNA sequence.

ACCESSION AL565455

VERSION AL565455.2 GI:30549492

EST.

REFERENCE Homo sapiens (human)

AUTHORS Homo sapiens

TITLE Genoscope

JOURNAL Genoscope - Centre National de Séquençage

COMMENT Email: seqref@genoscope.cns.fr Web : [www.genoscope.cns.fr](http://www.genoscope.cns.fr). This library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 9232.f. For more information about this cluster, see <http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CSOP05SH09NP1&cluster=9232.f>. Contact :

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 09:20:39 ; Search time 1031 Seconds  
 (without alignments)  
 11079.729 Million cell updates/sec

Title: US-09-430-412A-1  
 Perfect score: 3045  
 Sequence: 1 atccatcaataatccgtta.....gtggaggatggggcttcg 3045

Scoring table: IDENTITY\_NUC  
 GapOp 10.0 , GapExt 1.0

Searched: 2475585 seqs, 1875730760 residues

Total number of hits satisfying chosen parameters: 4951170

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Published Applications\_NA:\*

1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:\*

2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq:\*

3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*

4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:\*

5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq:\*

6: /cgn2\_6/ptodata/1/pubpna/ACTG5\_PUBCOMB.seq:\*

7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq:\*

8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:\*

9: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq:\*

10: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq:\*

11: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*

12: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:\*

13: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:\*

14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:\*

15: /cgn2\_6/prodata/1/pubpna/US10C\_PUBCOMB.seq:\*

16: /cgn2\_6/prodata/1/pubpna/US09c\_PUBCOMB.seq:\*

17: /cgn2\_6/prodata/1/pubpna/US60\_NEW\_PUB.seq:\*

18: /cgn2\_6/prodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

\* Query Match Length DB ID Description

Result No.	Score	Match	Length	DB	ID	Description
C 1	428.2	14.1	559	15	US-10-027-62-19186	Sequence 196186,
C 2	428.2	14.1	559	15	US-10-027-62-19187	Sequence 196187,
C 3	83.2	2.7	1145	14	US-10-240-43-206	Sequence 206, APP
C 4	82.4	2.7	6336	14	US-10-311-455-764	Sequence 764, APP
C 5	82.4	2.7	3673778	14	US-10-312-941-1	Sequence 1, APP
C 6	80.8	2.7	158001	16	US-10-211-179-11	GENERAL INFORMATION
C 7	78.8	2.6	19787	14	US-10-311-455-1424	Sequence 1424, APP
C 8	77.8	2.6	6063	14	US-10-240-433-268	Sequence 268, APP
C 9	75.2	2.5	6317	14	US-10-204-708-11	Sequence 11, APP
C 10	75.2	2.5	6317	14	US-10-311-455-381	Sequence 381, APP
C 11	75.2	2.5	6465	14	US-1-311-455-958	Sequence 958, APP
C 12	75.2	2.5	7351	14	US-10-311-455-2	Sequence 2, APP
C 13	74.8	2.5	5145	14	US-10-111-455-321	Sequence 321, APP
C 14	74.8	2.5	5145	14	US-10-240-435-17	Sequence 17, APP
C 15	74.6	2.4	3673778	14	US-10-312-841-2	Sequence 2, APP

RESULT 1  
 US-10-027-63-196186/C  
 Sequence 196186, Application US/10027632  
 Publication No. US2003020407549  
 GENERAL INFORMATION:  
 APPLICANT: Wang, David G.  
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
 TITLE OF INVENTION: Polymorphisms in the Human Genome  
 FILE REFERENCE: 10827-129  
 CURRENT APPLICATION NUMBER: US/10/027,632  
 CURRENT FILING DATE: 2002-04-30  
 PRIOR APPLICATION NUMBER: US 60/218,006  
 PRIOR FILING DATE: 2000-07-12  
 PRIOR APPLICATION NUMBER: US 60/198,675  
 PRIOR FILING DATE: 2000-04-20  
 PRIOR APPLICATION NUMBER: US 60/193,483  
 PRIOR APPLICATION NUMBER: US 60/185,218  
 PRIOR FILING DATE: 2000-02-24  
 PRIOR APPLICATION NUMBER: US 60/167,363  
 PRIOR FILING DATE: 1999-11-23  
 PRIOR APPLICATION NUMBER: US 60/156,358  
 PRIOR FILING DATE: 1999-09-28  
 PRIOR APPLICATION NUMBER: US 60/145,002  
 PRIOR FILING DATE: 1999-08-09  
 NUMBER OF SEQ ID NOS: 322720  
 SOFTWARE: FASTSEQ for Windows Version 4.0  
 SEQ ID NO: 196186  
 LENGTH: 559  
 TYPE: DNA  
 ORGANISM: Human  
 US-10-027-63-196186

Query Match Similarity 14.1%; Score 428.2; DB 15; length 559;  
 Best Local Similarity 92.2%; Pred. No. 2.7e-77; Matches 517; Conservate 2; Mismatches 30; Indels 12; Gaps 6;  
 Sequence 599 ATTCAACTACATATTATGGATTATGATTACATATGATGTTGTTGAA 658

Sequence 228, APP  
 Sequence 148, APP  
 Sequence 90, APP  
 Sequence 100, APP  
 Sequence 2331, APP  
 Sequence 10, APP  
 Sequence 200, APP  
 Sequence 178, APP  
 Sequence 132, APP  
 Sequence 162, APP  
 Sequence 3163, APP  
 Sequence 6381, APP  
 Sequence 1844, APP  
 Sequence 2000, APP  
 Sequence 1, APP  
 Sequence 418, APP  
 Sequence 176, APP  
 Sequence 9, APP  
 Sequence 13, APP  
 Sequence 218, APP  
 Sequence 248, APP  
 Sequence 230, APP  
 Sequence 198, APP  
 Sequence 2034, APP  
 Sequence 292, APP  
 Sequence 144, APP  
 Sequence 408, APP  
 Sequence 64, APP  
 Sequence 68, APP

## ALIGNMENTS

RESULT<sup>2</sup>  
US-10-027-632-196187/C  
; Sequence 196187, Application US/10027632  
; Publication No. US20030204075A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
FILE REFERENCE: 108427\_129  
CURRENT APPLICATION NUMBER: US/10/027,632  
PRIOR APPLICATION NUMBER: US 60/218,006  
PRIOR FILING DATE: 2000-07-12  
PRIOR APPLICATION NUMBER: US 60/198,676  
PRIOR FILING DATE: 2000-04-20  
PRIOR APPLICATION NUMBER: US 60/193,483  
PRIOR FILING DATE: 2000-01-29  
PRIOR APPLICATION NUMBER: US 60/185,218  
PRIOR FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: US 60/167,363  
PRIOR FILING DATE: 1999-11-23  
PRIOR APPLICATION NUMBER: US 60/156,358  
PRIOR FILING DATE: 1999-09-28  
PRIOR APPLICATION NUMBER: US 60/146,002  
PRIOR FILING DATE: 1999-08-09  
NUMBER OF SEQ ID NOS: 3,257,20  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO: 196187  
LENGTH: 559  
TYP: DNA  
ORGANISM: Human  
US-10-027-632-196187

Query Match 14.1%; Score 428.2; DB 15; length 559;  
Best Local Similarity 92.2%; Pre. 2.7e-77; Matches 517; Conservative 2; Mismatches 30; Indels 12; Gaps 6;  
Matches 517; Conservative 2; Mismatches 30; Indels 12; Gaps 6;

Db 559 ATTCTAACTACATATTGATTATTGGTCAATTACAGTGTTGTTGA 500  
Qy 659 CACAATCTTATTAGTGTCTGATGATATAATTGCCTCTTAATTAAAGTTCC 718  
Db 499 CACAATCTTATTAGTGTCTGATGATATAATTGCCTCTTAATTAAAGTTCC 718  
Qy 719 TATTTACTGTGTTAGCTACTATAATTCAAGTTAATTGAAATAGAACCTCG 778  
Db 439 TATTTACTGTGTTAGCTACTATAATTCAAGTTAATTGAAATAGAACCTCG 780  
Qy 779 CCTTTAAATTTCATATTATTGAACTCTATTAACTTAACTGTTAATGTTCA 838  
Db 379 -CTTAAATTTCATATTTCATATTATTG-GACCTCAAATCTTAACTGTTAAT 322  
Qy 839 ATAGTCTGTTGAGACTGAGACTTAGAGTGAATAGAACCTCACAACTT-A 897  
Db 321 ACAGTCTGTTGAGACTGAGACTTAGAGTGAATAGAACCTCACAACTT-A 897  
Qy 898 AAAGACTCTCAGAGCTGCTAAAGCAATTACATCTTCTTGTCA 957  
Db 261 AAAGACTCTCAGAGCTGCTAAAGCAATTACATCTTCTTGTCA 202  
Qy 958 GCC---ATGATCACACAGCATGCTCATGGTGCATGCTGAATGTTGAGCG 1012  
Db 201 TGCCATGATCATCACAAATGCCAGCTCATGGTGCATGCTGAATGTTGAGCG 142  
Qy 1013 GACTGNGCC---ACTGAACTATAAAACACAAACCTTACATCAACCA 1068  
Db 141 GACTCTGCGACGACTGAACTATAAAACACAAACCTTACATCAACCA 82  
Qy 1069 CTGCTCTGTTGTTAGCTGCTGCGCAACTGGATTCTTGTGATCTGGATGCT 1128  
Db 81 CTGCTCTGTTGTTAGCTGCTGCGCAASTGGATCTTGTGATCTGGATGCT 22  
Qy 1129 CTTGTGTTGGCTGGAGA 1149  
Db 21 CTTGTGTTGGCTGGAGA 1  
RESULT<sup>2</sup>  
US-10-027-632-196187/C  
; Sequence 196187, Application US/10027632  
; Publication No. US20030204075A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
FILE REFERENCE: 108427\_129  
CURRENT APPLICATION NUMBER: US/10/027,632  
PRIOR APPLICATION NUMBER: US 60/218,006  
PRIOR FILING DATE: 2000-07-12  
PRIOR APPLICATION NUMBER: US 60/198,676  
PRIOR FILING DATE: 2000-04-20  
PRIOR APPLICATION NUMBER: US 60/193,483  
PRIOR FILING DATE: 2000-01-29  
PRIOR APPLICATION NUMBER: US 60/185,218  
PRIOR FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: US 60/167,363  
PRIOR FILING DATE: 1999-11-23  
PRIOR APPLICATION NUMBER: US 60/156,358  
PRIOR FILING DATE: 1999-09-28  
PRIOR APPLICATION NUMBER: US 60/146,002  
PRIOR FILING DATE: 1999-08-09  
NUMBER OF SEQ ID NOS: 3,257,20  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO: 196187  
LENGTH: 559  
TYP: DNA  
ORGANISM: Human  
US-10-027-632-196187

Query Match 14.1%; Score 428.2; DB 15; length 559;  
Best Local Similarity 92.2%; Pre. 2.7e-77; Matches 517; Conservative 2; Mismatches 30; Indels 12; Gaps 6;  
Matches 517; Conservative 2; Mismatches 30; Indels 12; Gaps 6;

Db 559 ATTCTAACTACATATTGATTATTGGTCAATTACAGTGTTGTTGA 500  
Qy 559 ATTCTAACTACATATTGATTATTGGTCAATTACAGTGTTGTTGA 500  
Db 499 CACAATCTTATTAGTGTCTGATGATATAATTGCCTCTTAATTAAAGTTCC 658  
Qy 659 CACAATCTTATTAGTGTCTGATGATATAATTGCCTCTTAATTAAAGTTCC 658  
Db 499 CACAATCTTATTAGTGTCTGATGATATAATTGCCTCTTAATTAAAGTTCC 440  
Qy 719 TATTTACTGTGTTAGCTACTATAATTCAAGTTAATTGAAATAGAACCTCG 778  
Db 439 TATTTACTGTGTTAGCTACTATAATTG-GACCTCAAATCTTAACTGTTAAT 380  
Qy 779 CCTTTAAATTTCATATTATTGAACTCTATTAACTTAACTGTTAATGTTCA 838  
Db 379 -CTTAAATTTCATATTTCATATTATTG-GACCTCAAATCTTAACTGTTAAT 322  
Qy 839 ATAGTCTGTTGAGACTGAGACTTAGAGTGAATAGAACCTCACAACTT-A 897  
Db 321 ACAGTCTGTTGAGACTGAGACTTAGAGTGAATAGAACCTCACAACTT-A 897  
Qy 898 AAAGACTCTCAGAGCTGCTAAAGCAATTACATCTTCTTGTCA 957  
Db 261 AAAGACTCTCAGAGCTGCTAAAGCAATTACATCTTCTTGTCA 202  
Qy 958 GCC---ATGATCACACAGCATGCTCATGGTGCATGCTGAATGTTGAGCG 1012  
Db 201 TGCCATGATCATCACAAATGCCAGCTCATGGTGCATGCTGAATGTTGAGCG 142  
Qy 1013 GACTGNGCC---ACTGAACTATAAAACACAAACCTTACATCAACCA 1068  
Db 141 GACTCTGCGACGACTGAACTATAAAACACAAACCTTACATCAACCA 82  
Qy 1069 CTGCTCTGTTGTTAGCTGCTGCGCAACTGGATTCTTGTGATCTGGATGCT 1128  
Db 81 CTGCTCTGTTGTTAGCTGCTGCGCAASTGGATCTTGTGATCTGGATGCT 22  
Qy 1129 CTTGTGTTGGCTGGAGA 1149  
Db 21 CTTGTGTTGGCTGGAGA 1  
RESULT<sup>3</sup>  
US-10-240-453-206  
; Sequence 206, Application US/10240453  
; Publication No. US20030148326A1  
; GENERAL INFORMATION:  
; APPLICANT: OLEK, Alexander  
; APPLICANT: PIERENBROCK, Christian  
; APPLICANT: BERLIN, Kurt  
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA  
TITLE OF INVENTION: Transcription  
TITLE OF INVENTION: by Means of Assessing the Methylation Status of Genes Associated  
TITLE OF INVENTION: With DNA Transcription  
FILE REFERENCE: 5013\_1009  
CURRENT APPLICATION NUMBER: US/10/240,453  
CURRENT FILING DATE: 2002-10-02  
PRIOR APPLICATION NUMBER: PCT/EP01/03973  
PRIOR FILING DATE: 2001-04-06  
PRIOR APPLICATION NUMBER: DE 10019058.8  
PRIOR FILING DATE: 2000-04-06  
PRIOR APPLICATION NUMBER: DE 10019173.8  
PRIOR FILING DATE: 2000-04-07  
PRIOR APPLICATION NUMBER: DE 10032529.7  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: DE 10043826.1  
PRIOR FILING DATE: 2000-09-01  
NUMBER OF SEQ ID NOS: 350  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO: 206  
LENGTH: 11745

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OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 08:35:04 ; Search time 238 Seconds  
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7100.107 Million cell updates/sec

Title: US-09-430-412A-1

Perfect score: 3045

Sequence: 1 atccatcaataatacgta.....gtggaggatggggtctcg 3045

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq: \*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq: \*  
5: /cgn2\_6/ptodata/2/ina/PCITS\_COMB.seq: \*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	125.5	4.1	7218	1 US-09-232-463-14	Sequence 14, Appl
C 2	75.2	2.5	6317	4 US-10-204-708-11	Sequence 11, Appl
C 3	74	2.4	6365	2 US-08-883-795A-36	Sequence 36, Appl
C 4	68.6	2.3	636	3 US-08-998-416-1137	Sequence 33, Appl
C 5	68.4	2.2	640681	4 US-09-790-988-1	Sequence 1, Appl
C 6	67.8	2.2	5326	3 US-08-658-136-2	Sequence 2, Appl
C 7	67.8	2.2	53577	3 US-08-658-136-1	Sequence 1, Appl
C 8	65.2	2.1	507	4 US-09-489-039A-1200	Sequence 1200, AP
C 9	65.2	2.1	516	4 US-09-489-039A-1064	Sequence 1064, AP
C 10	65.2	2.1	517	4 US-09-489-039A-1065	Sequence 1065, AP
C 11	65.2	2.1	549	4 US-09-489-039A-1130	Sequence 1130, AP
C 12	65.2	2.1	549	4 US-09-489-039A-1011	Sequence 1011, AP
C 13	65.2	2.1	609	4 US-09-489-039A-1177	Sequence 1177, AP
C 14	64.4	2.1	1866	3 US-09-173-581-13	Sequence 13, Appl
C 15	64.4	2.1	1866	3 US-09-420-918-686-1	Sequence 12, Appl
C 16	63.8	2.1	19124	2 US-08-487-826B-13	Sequence 21, Appl
C 17	63.4	2.1	10640	4 US-09-417-485D-5	Sequence 5, Appl
C 18	63.2	2.1	11049	4 US-10-204-708-21	Sequence 13, Appl
C 19	62.8	2.1	819	4 US-09-918-685-5	Sequence 20, Appl
C 20	62.8	2.1	92139	4 US-09-918-686-1	Sequence 21, Appl
C 21	62.8	2.0	6866	4 US-10-204-708-20	Sequence 42, Appl
C 22	62.2	2.0	1268	4 US-09-369-247-42	Sequence 186, Appl
C 23	62	2.0	615	3 US-08-998-416-186	Sequence 1, Appl
C 24	62	2.0	319608	4 US-09-679-409-1	Sequence 11, Appl
C 25	62	2.0	319608	4 US-09-679-409-1	Sequence 31, Appl
C 26	61.8	2.0	1867	3 US-08-943-731-11	Sequence 1, Appl
C 27	61.8	2.0	24183	3 US-08-943-731-3	Sequence 1, Appl

## ALIGNMENTS

RESULT 1  
US-08-232-463-14/C  
; Sequence 14, Application US/08232463  
; Patent No. 5,670367  
; GENERAL INFORMATION:  
; APPLICANT: DORNER, F.  
; APPLICANT: SCHEIFFLINGER, F.  
; APPLICANT: FALKNER, F. G.  
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 1800 Diagonal Road, Suite 500  
; CITY: Alexandria  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22313-0299  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/232,463  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: US/07/935,313  
; FILING DATE:  
; APPLICATION NUMBER: EP 91 114 300.6  
; FILING DATE: 26-AUG-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BENT, Stephen A.  
; REGISTRATION NUMBER: 29,758  
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703)836-9300  
; TELEFAX: (703)683-4109  
; TELEX: 89919  
; INFORMATION FOR SEQ ID NO: 14:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 7218 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; CLOM: pZPGT-F1s  
; US-08-232-463-14

Query Match 4.1%; Score 125.6; DB 1; Length 7218;

